

Question #1 Topic 1

Column A

 $a \square b = (a + b)(a 2 b)$

-2 - 2

Column B

2 🗆 2

- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.

Reveal Solution

Discussion

Question #2

Topic 1

Column A

0 < x < 1

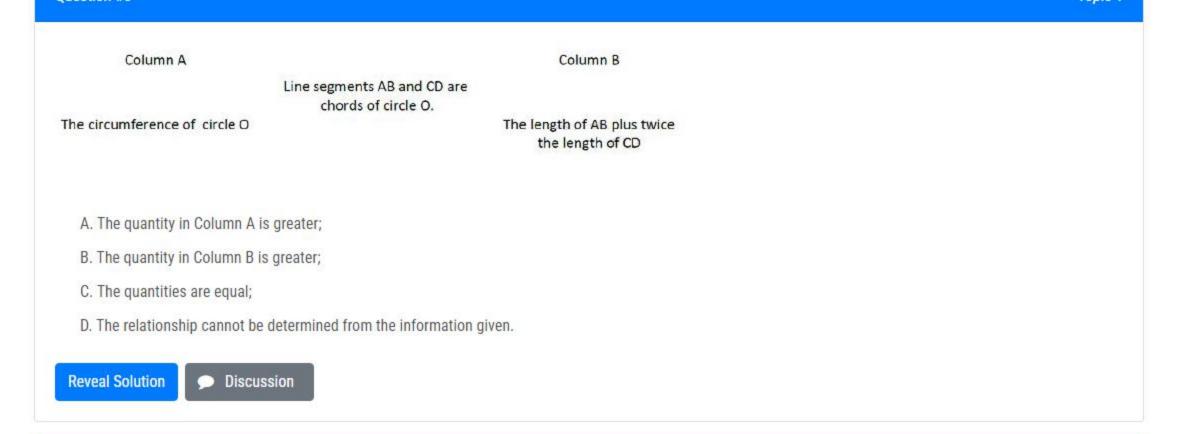
Column B

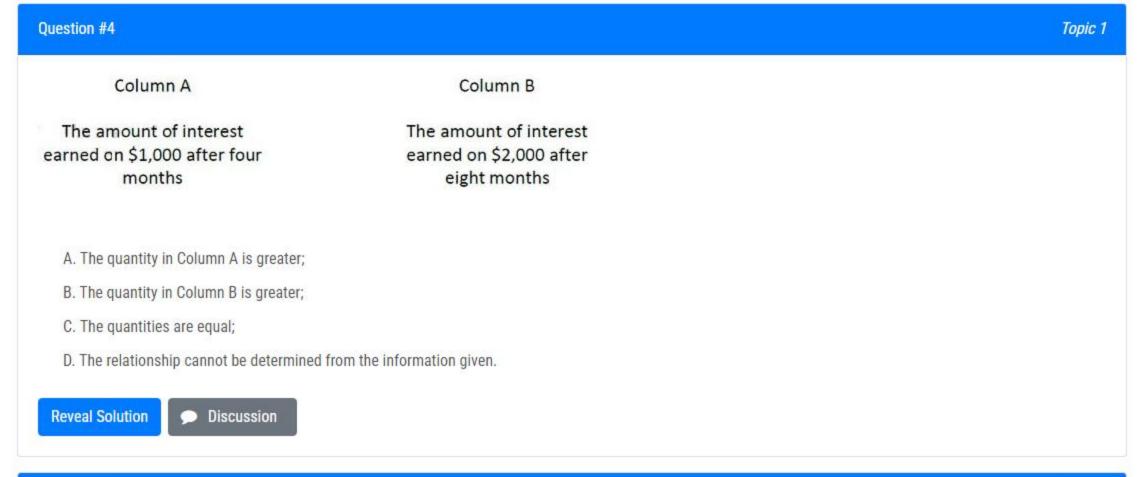
 $\sqrt[3]{x}$

 \sqrt{x}

- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.

Reveal Solution





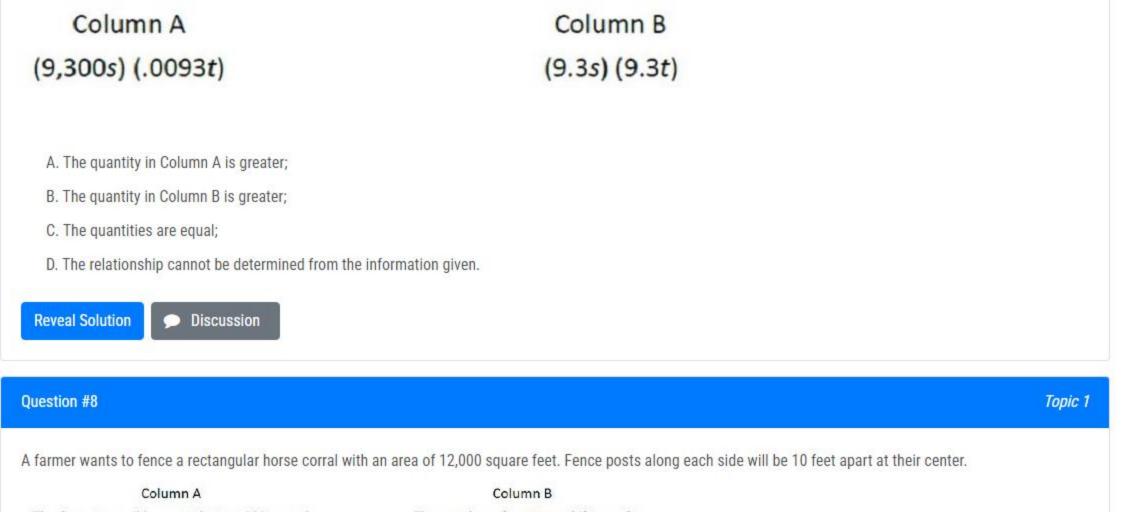
Column A Column B The number of prime numbers between 10 factors of 33 and 15 A. The quantity in Column A is greater; B. The quantities are equal;

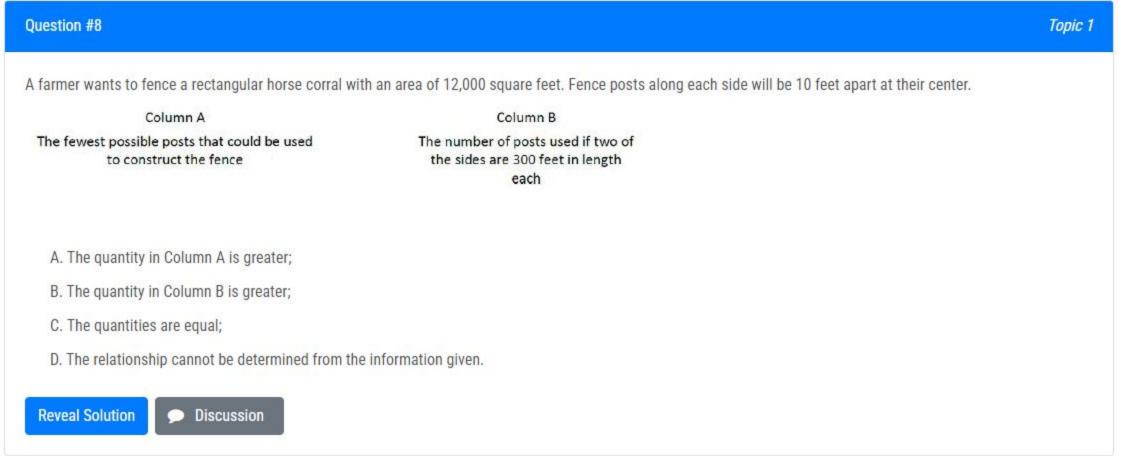
D. The relationship cannot be determined from the information given.

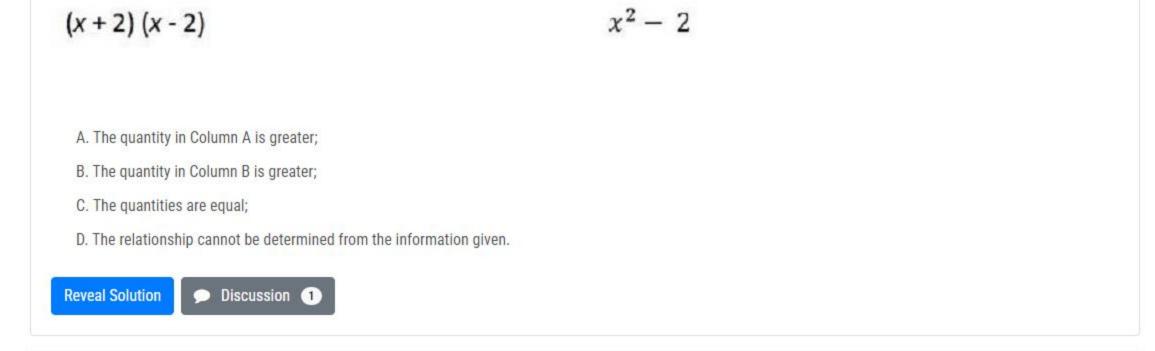
Discussion

Reveal Solution

Question #6 Topic 1 Column A Column B n = 2Set R: $\{n + 1, 2n + 2, 3n + 3, ...\}$ Set S: $\{n, n + 1, n + 2,...\}$ Two times the 24th The 25th term of Set R term of Set S A. The quantity in Column A is greater; B. The quantity in Column B is greater; C. The quantities are equal; D. The relationship cannot be determined from the information given. Discussion Reveal Solution

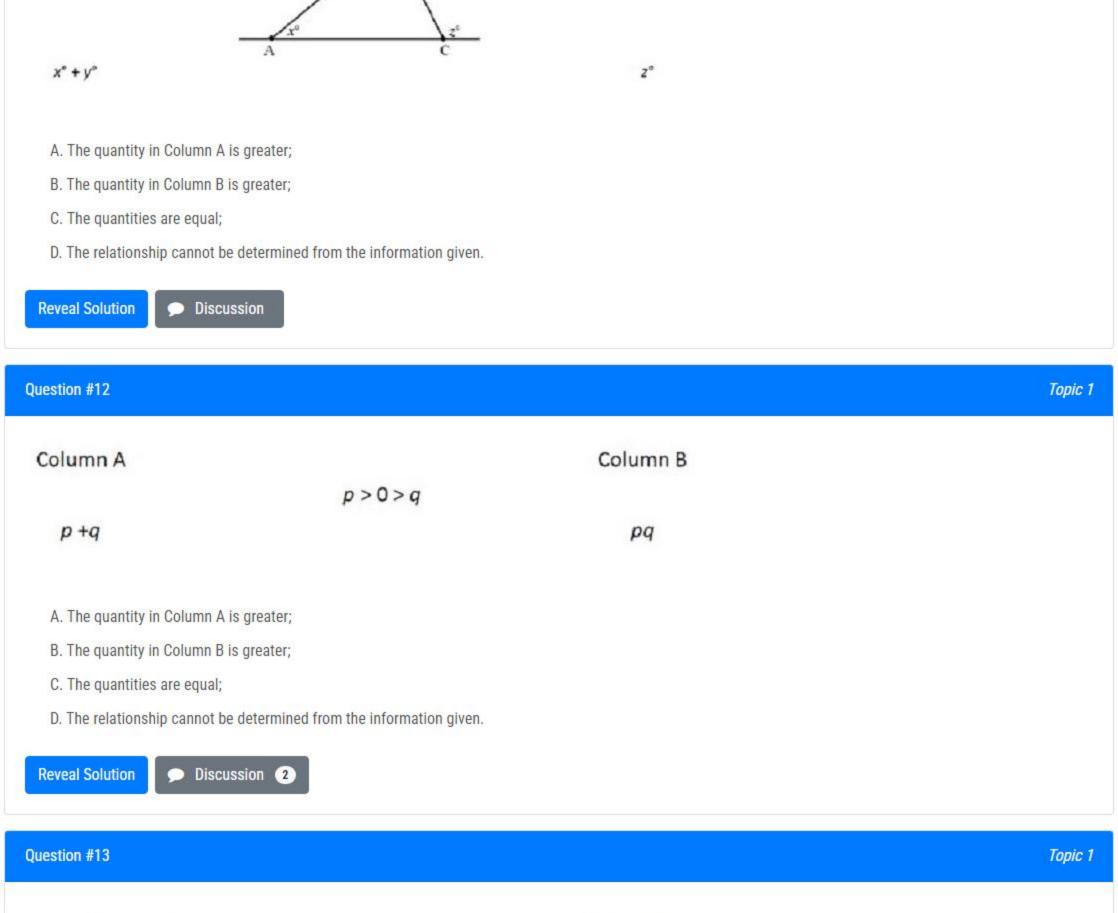




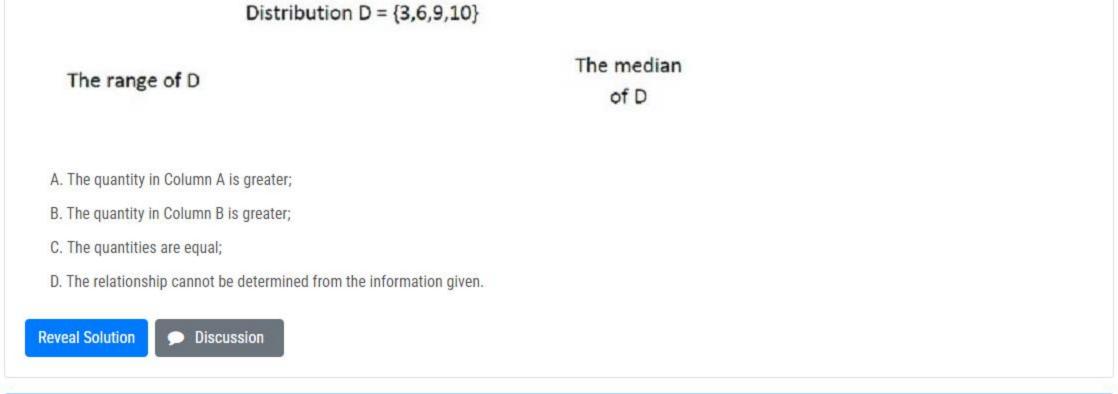


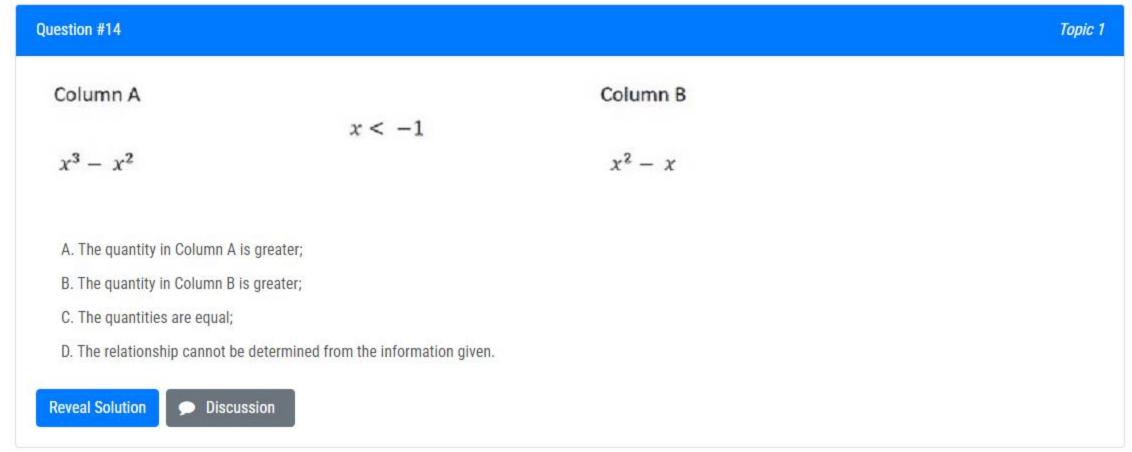




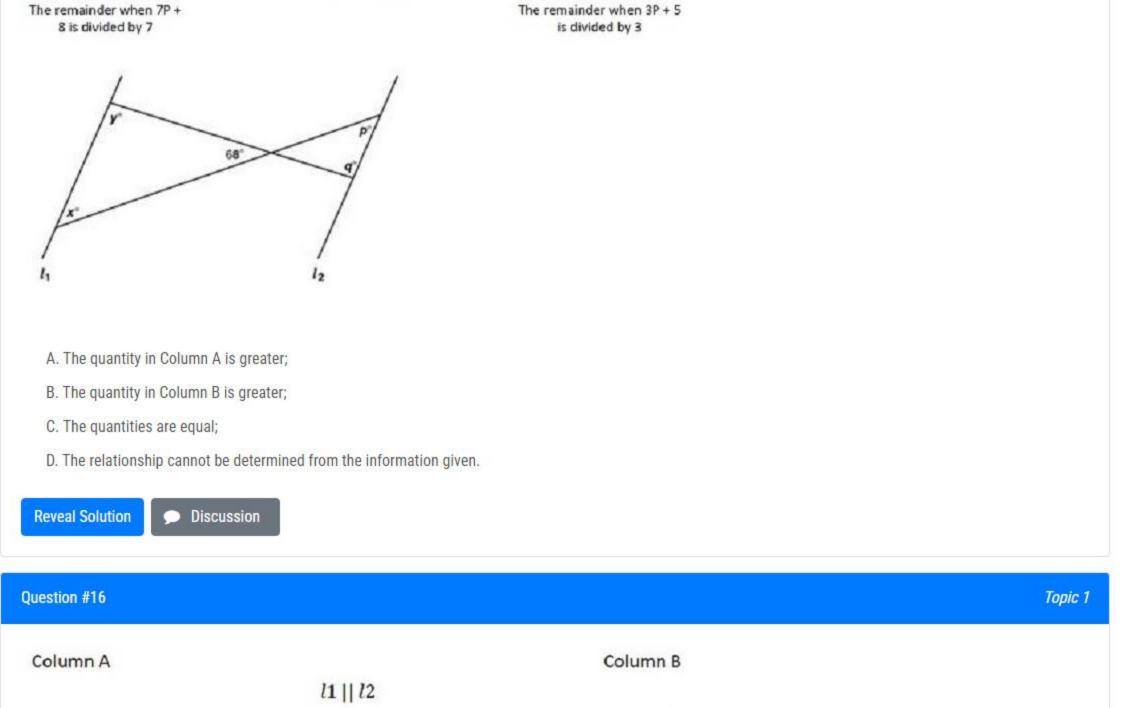


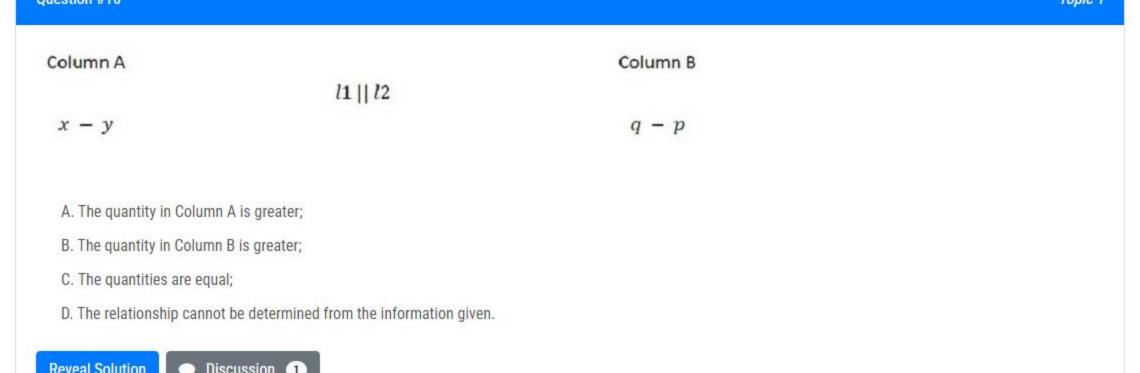
Column A Column B

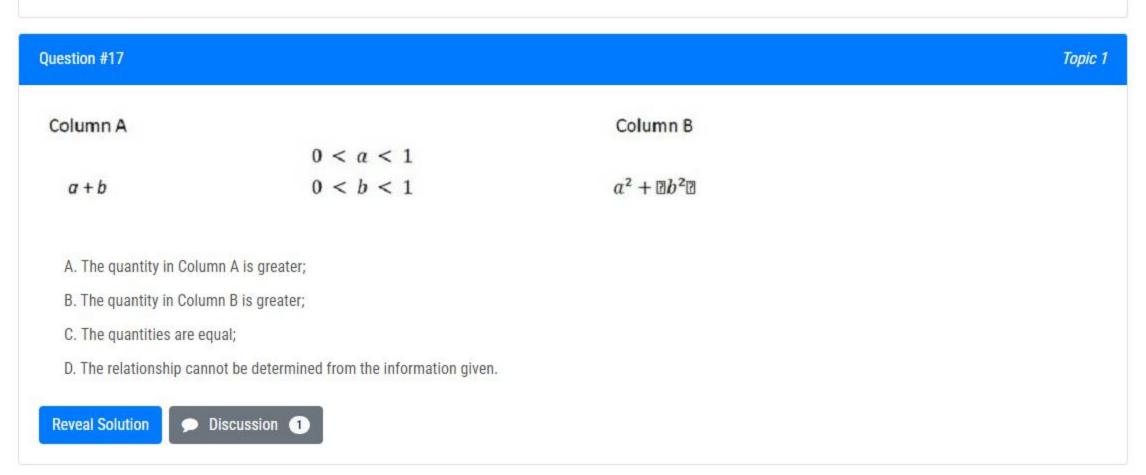




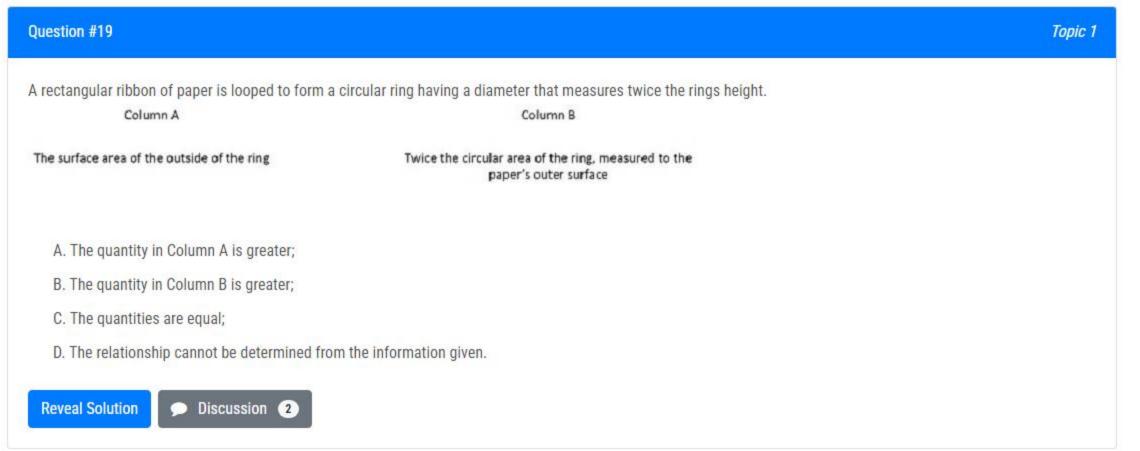


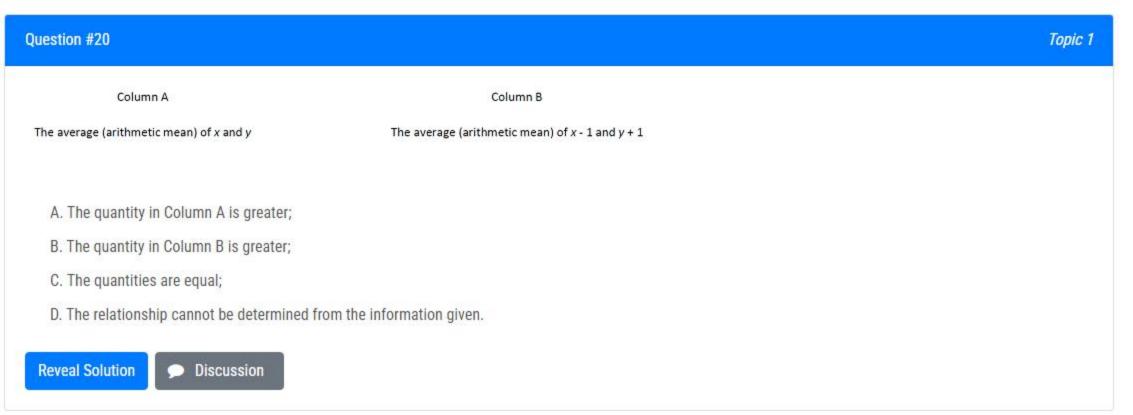


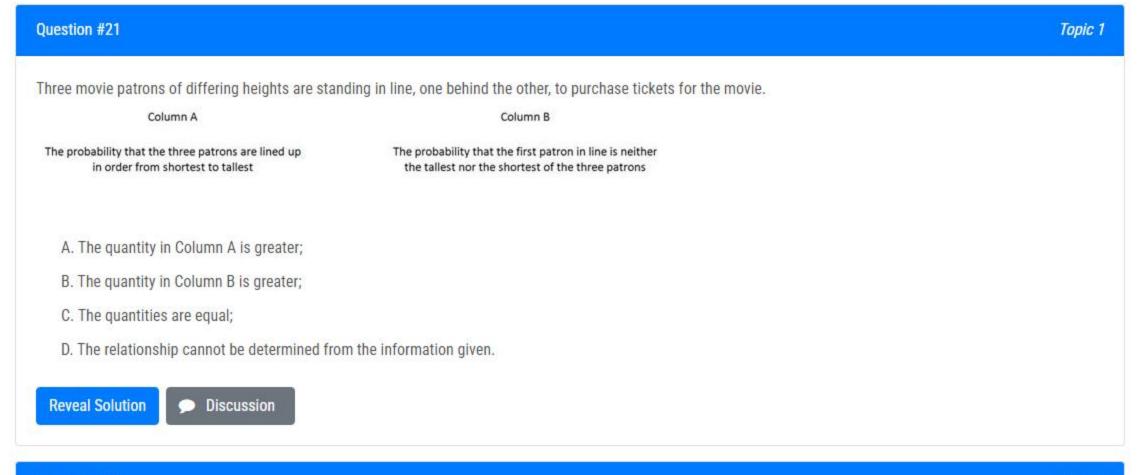












A buyer pays a \$1.00 tax on an item that costs \$10.00 after the tax is added.

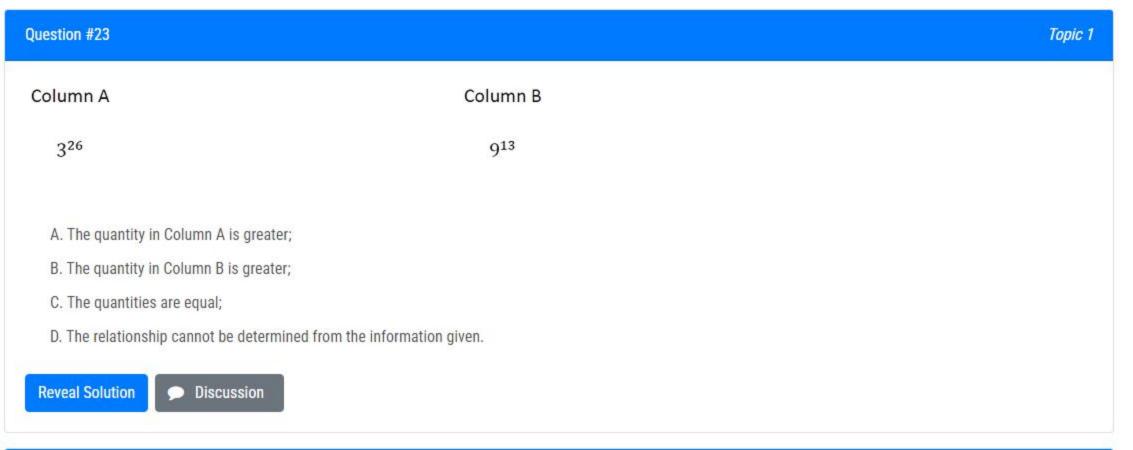
Column A

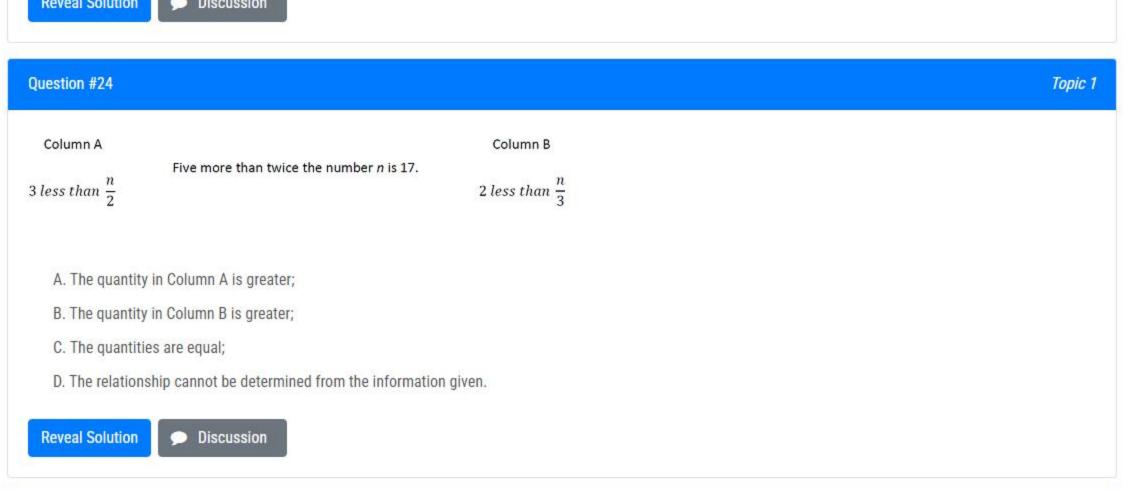
Column B

The percentage rate of the tax

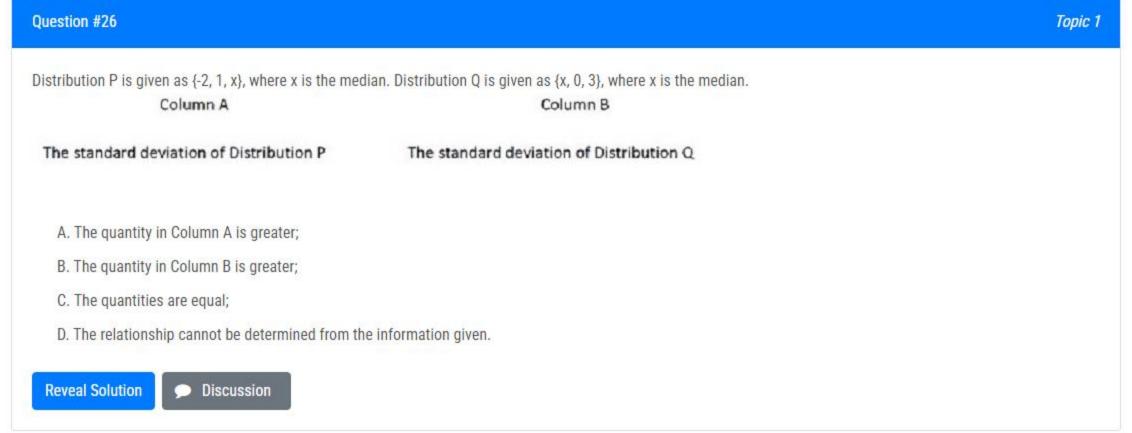
11%

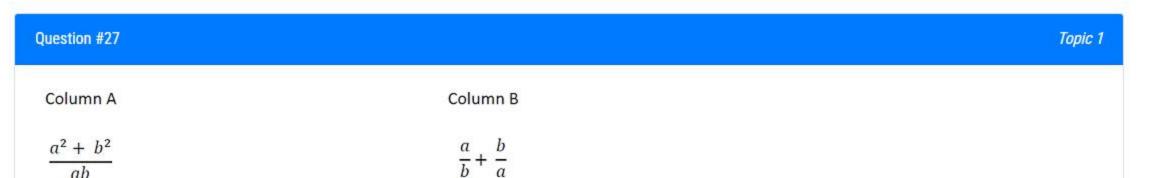
A. The quantity in Column A is greater;
B. The quantity in Column B is greater;
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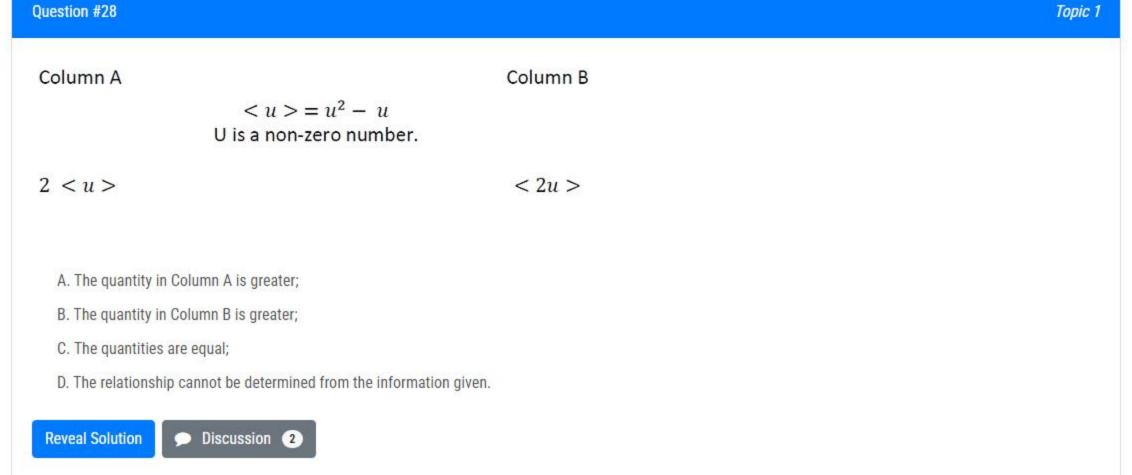








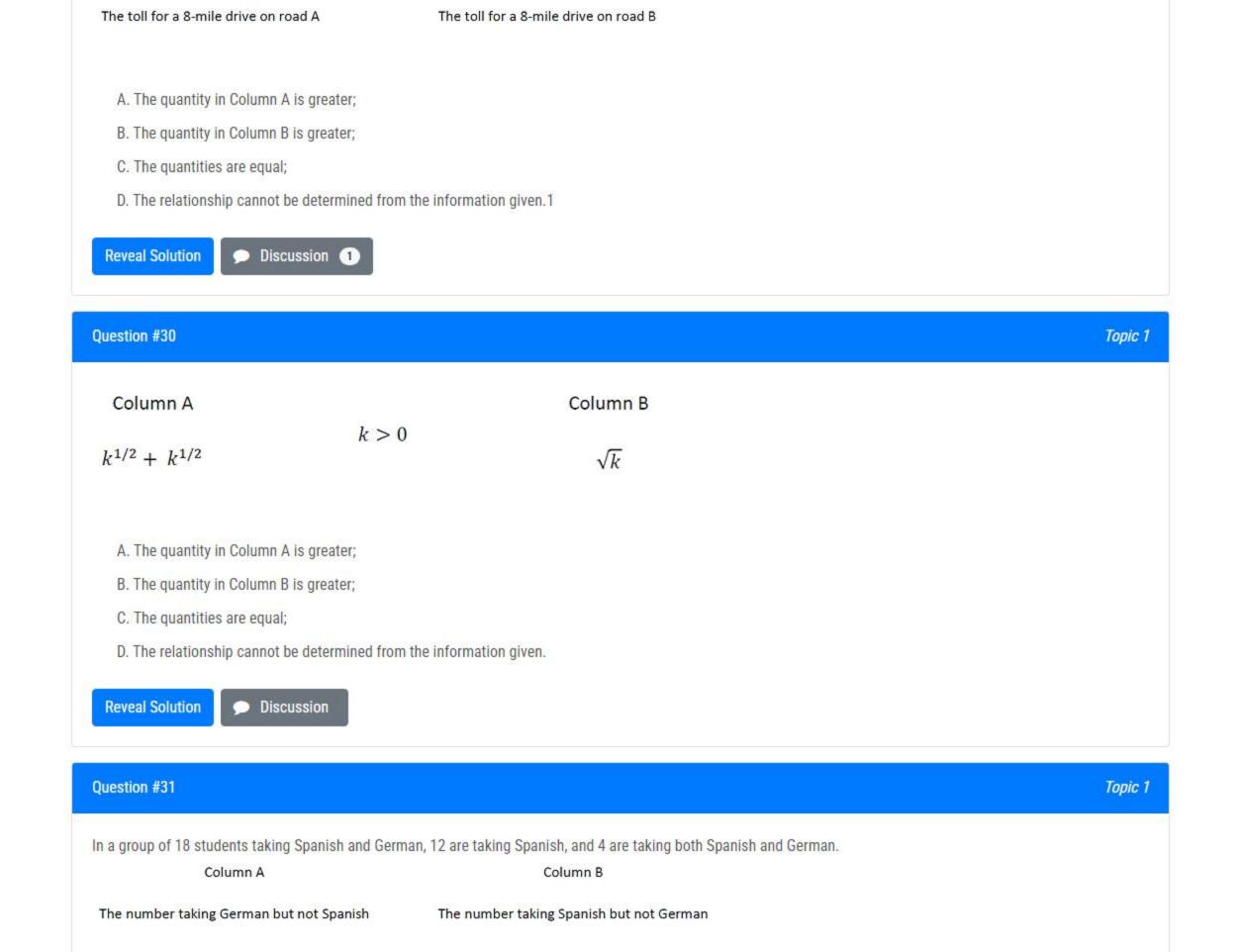


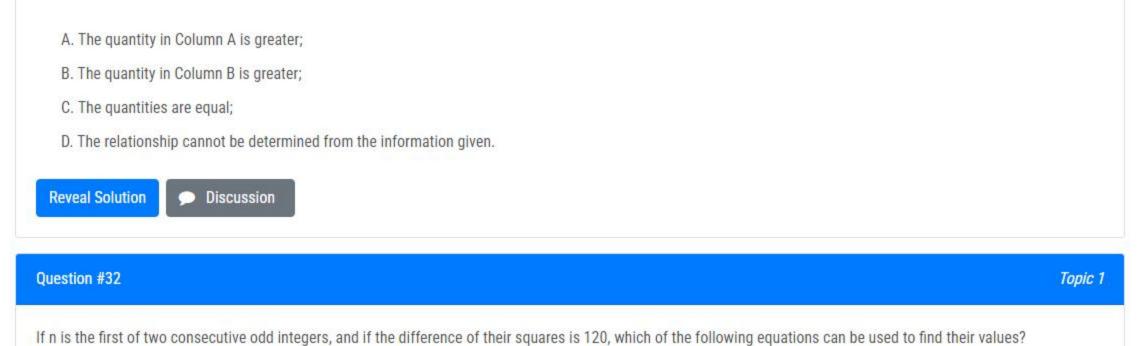


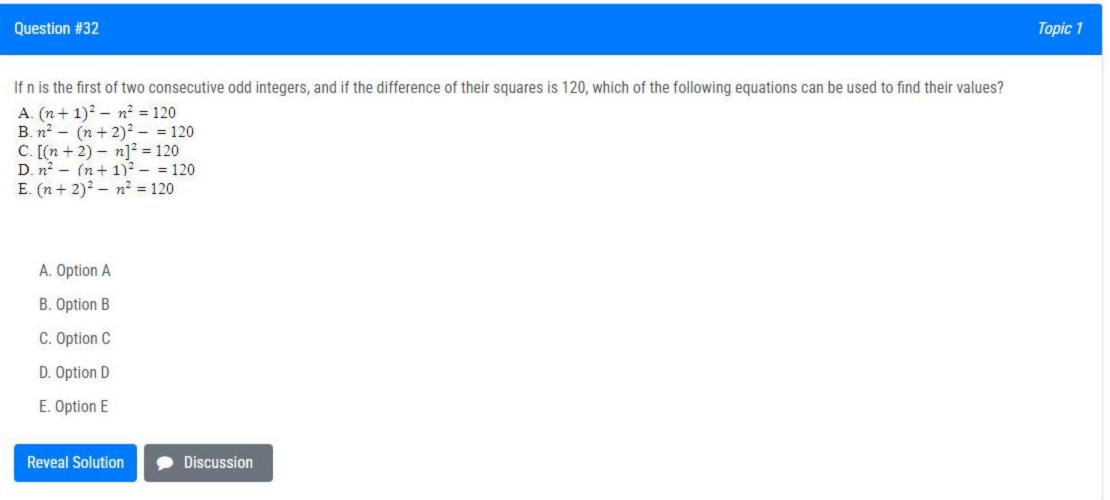
Question #29 Topic 1 The toll for driving on road A is \$1.20 for the first mile and 35 cents for each additional mile. The toll for driving on road B is \$2.25 for the first mile and 20 cents for each

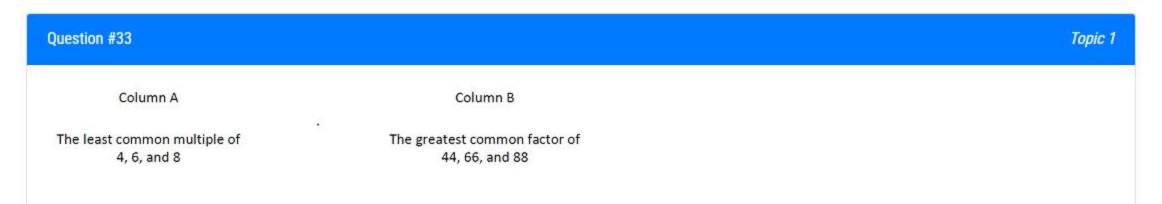
Column A Column B

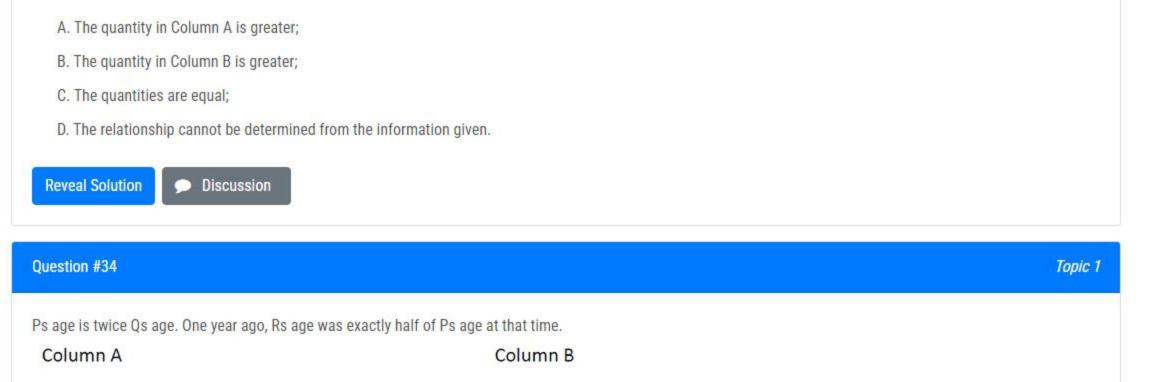
additional mile.

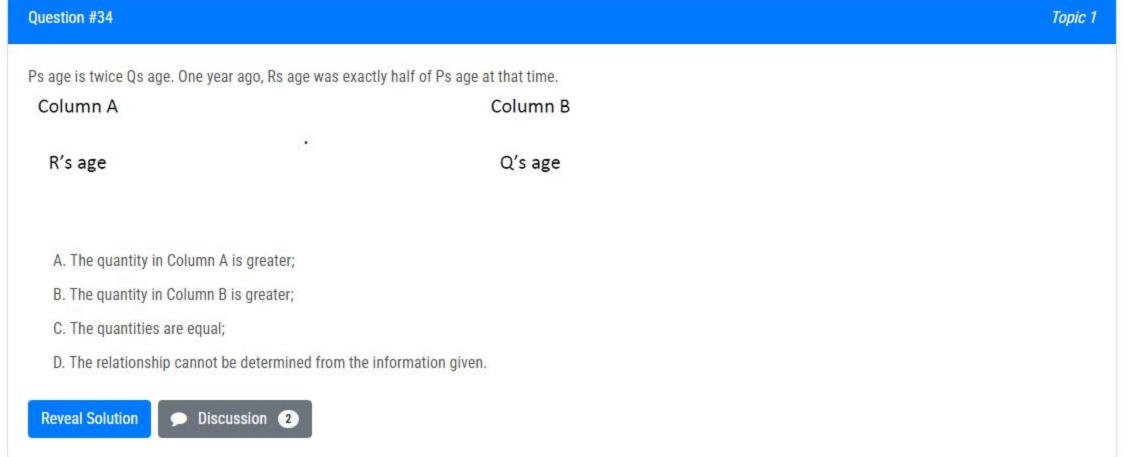




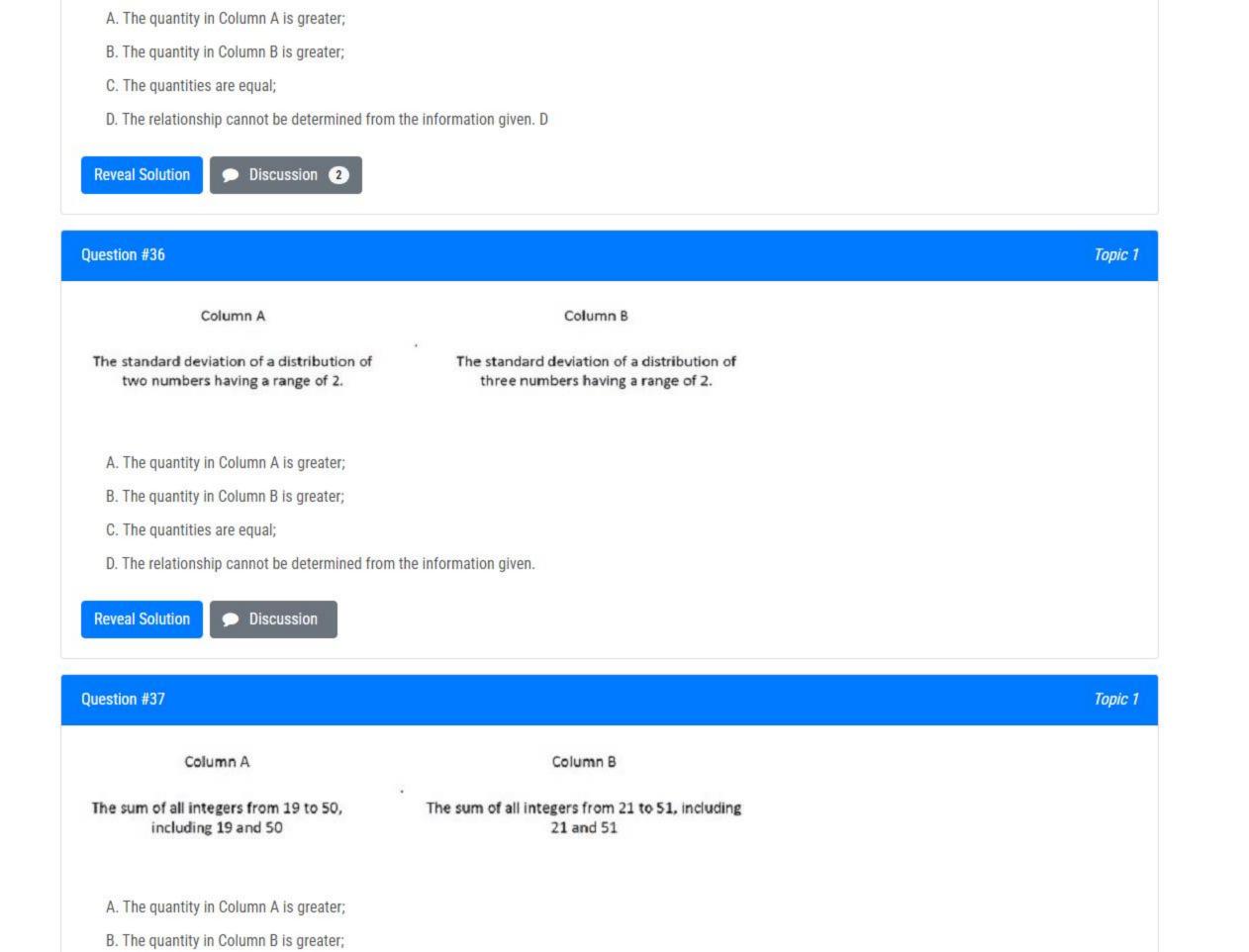


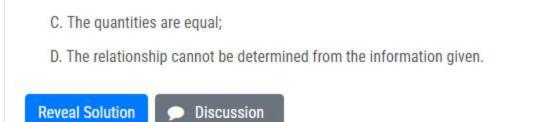


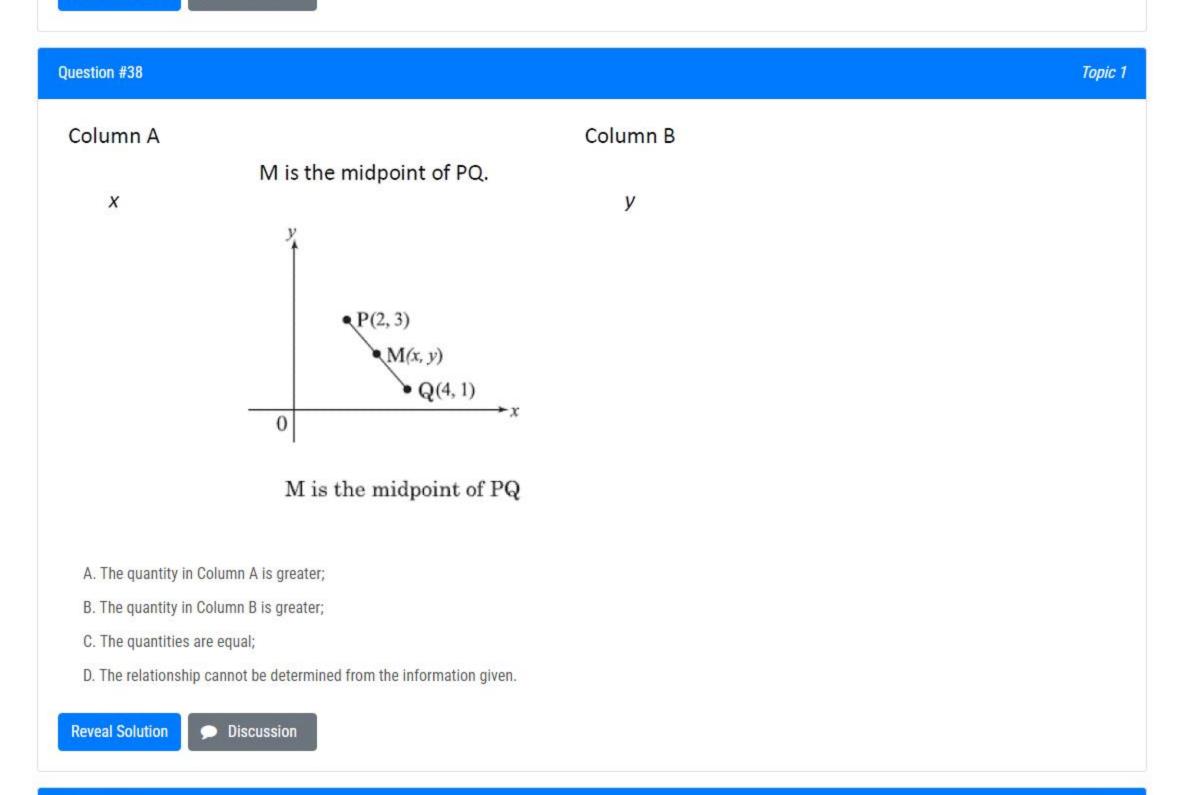


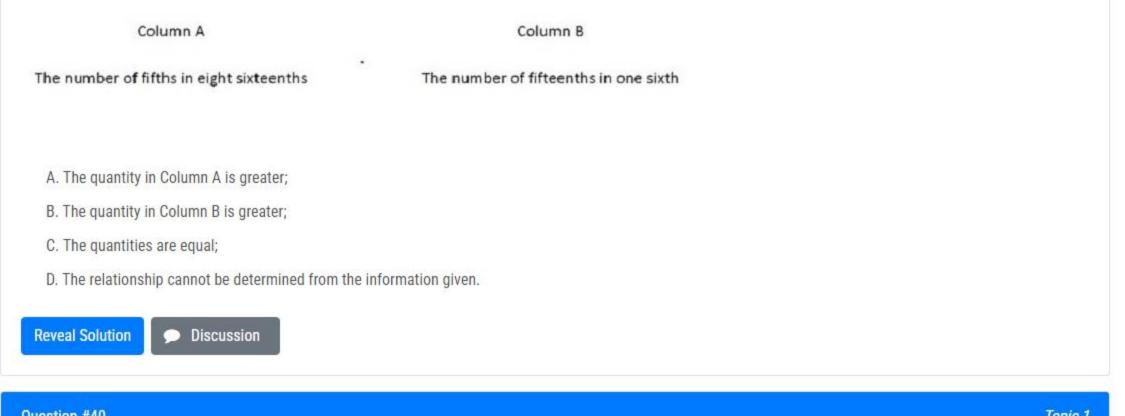


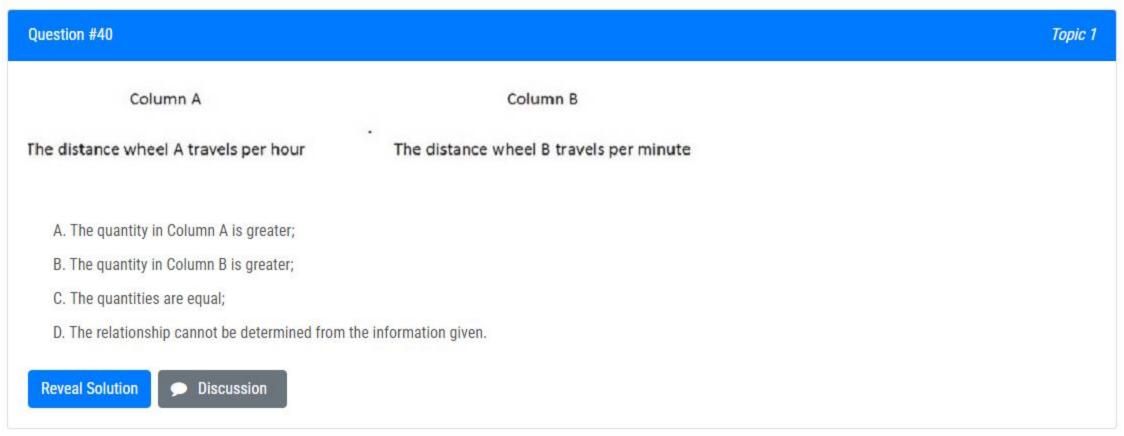












← Previous Questions

Next Questions ->

Question #41 Topic 1 Column B

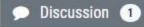
3x - 3 - 4x = x - 7 - 2x + 4

0 x

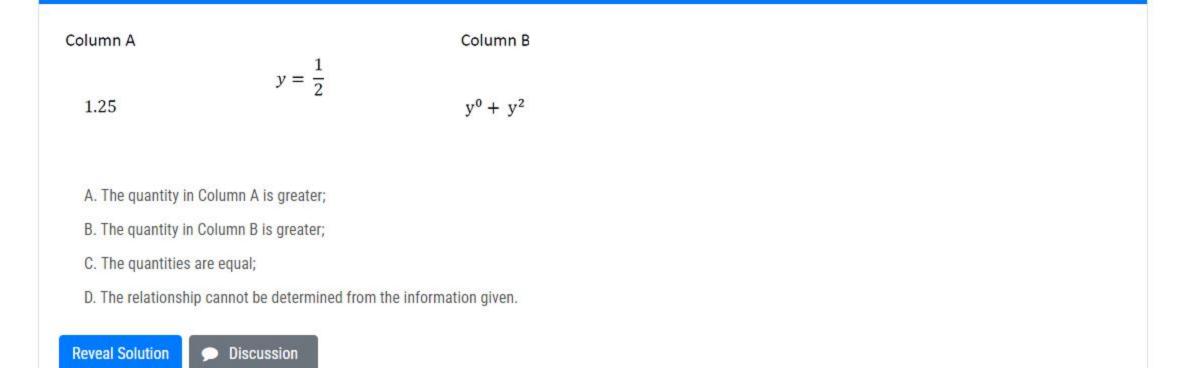
- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.

Reveal Solution

Column A



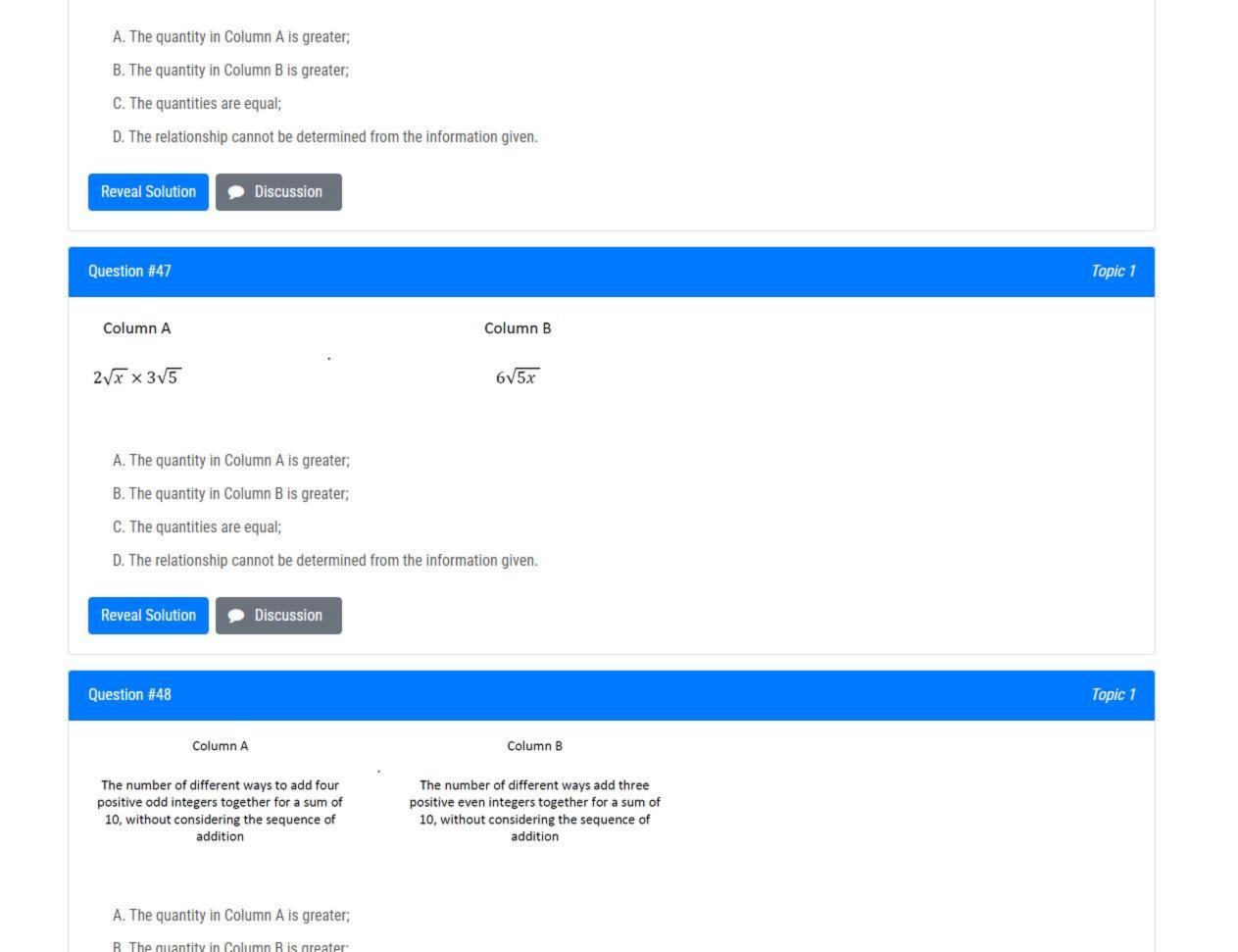
Question #42 Topic 1 Column A Column B The price of a coat on sale at 7% off its list The price of a coat that cost \$200 wholesale price of \$300 sold at a 40% markup A. The quantity in Column A is greater; B. The quantity in Column B is greater; C. The quantities are equal; D. The relationship cannot be determined from the information given. Discussion **Reveal Solution**

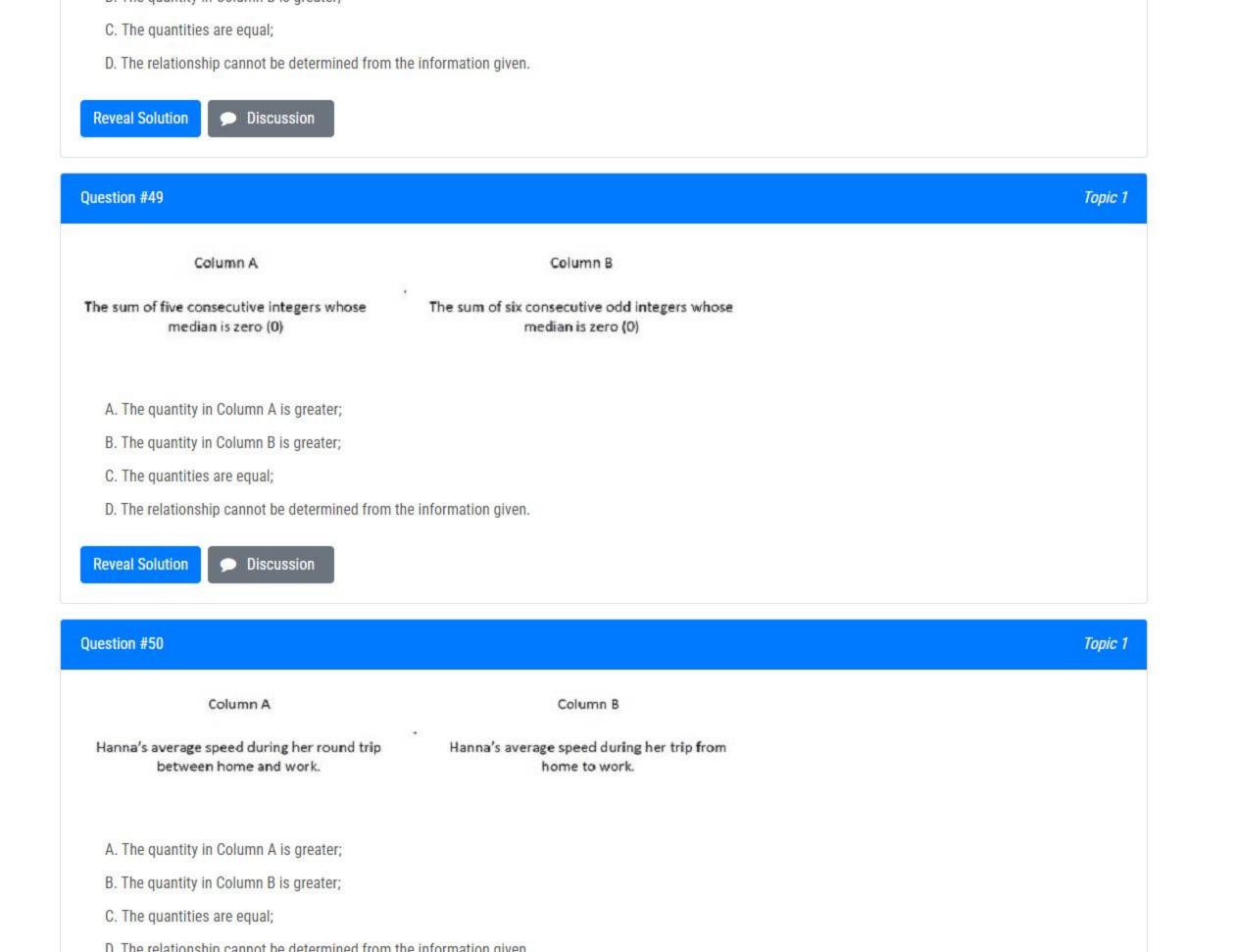


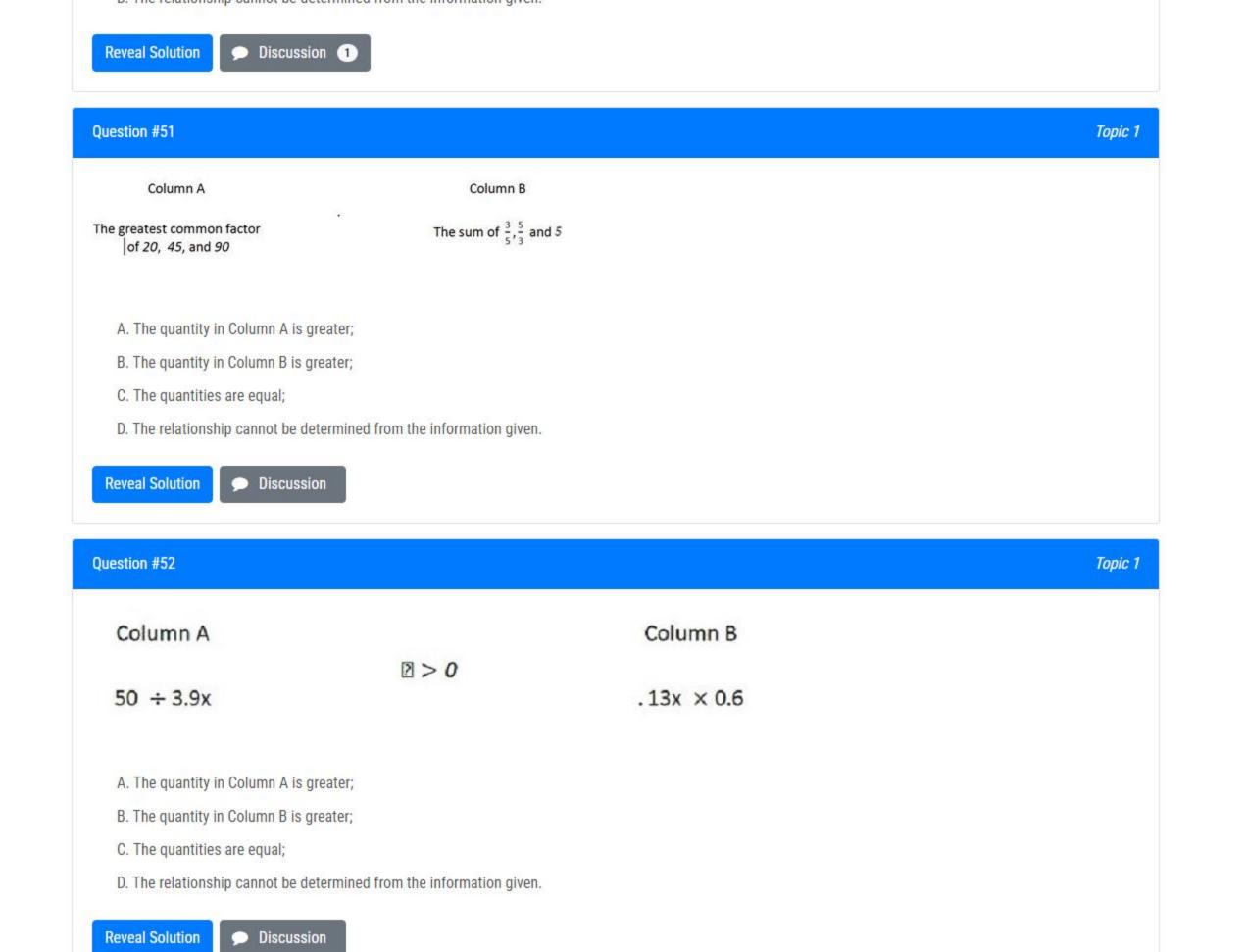


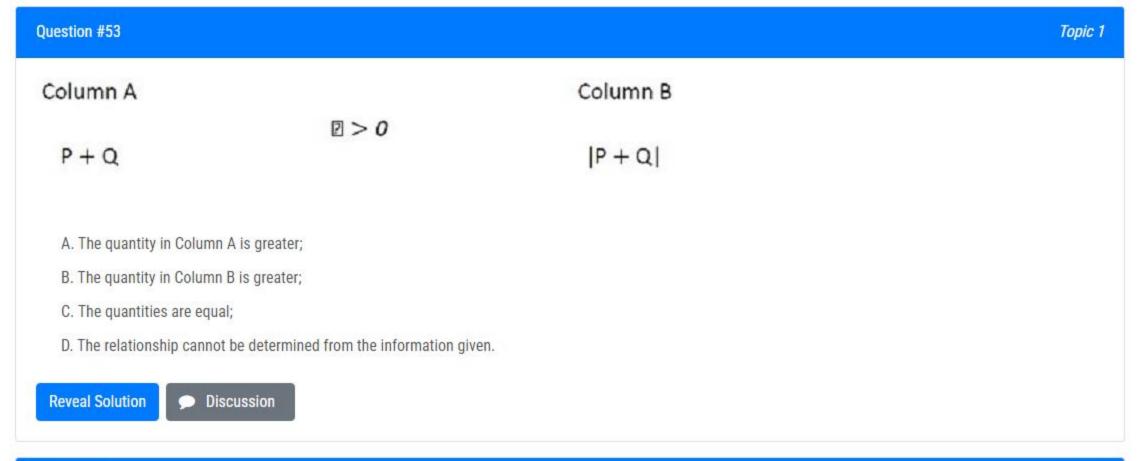
Island to the center of Agua Island

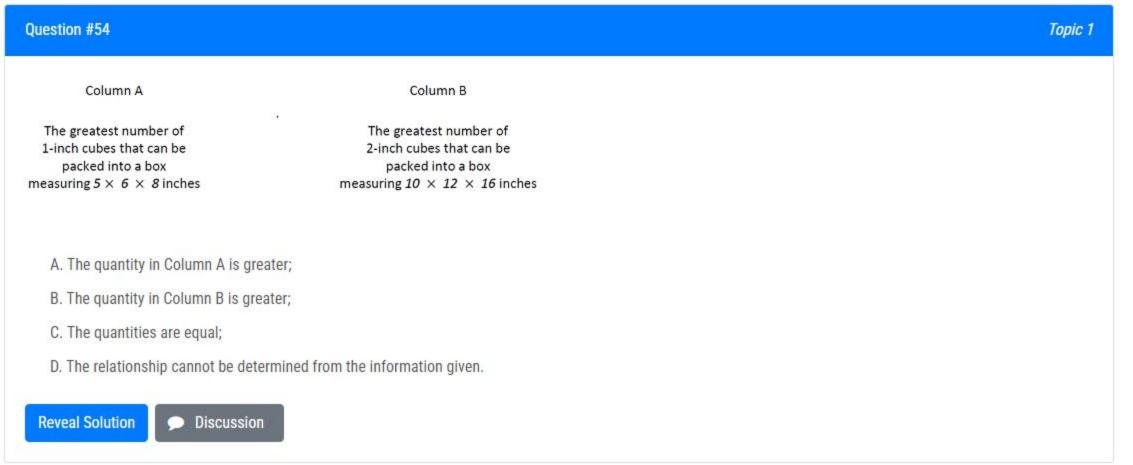
to the center of Cocoa Island

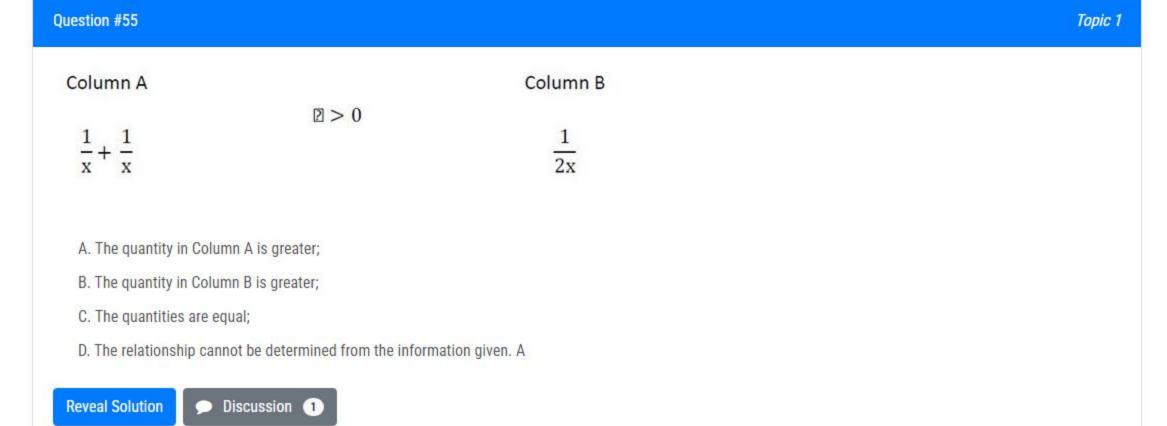


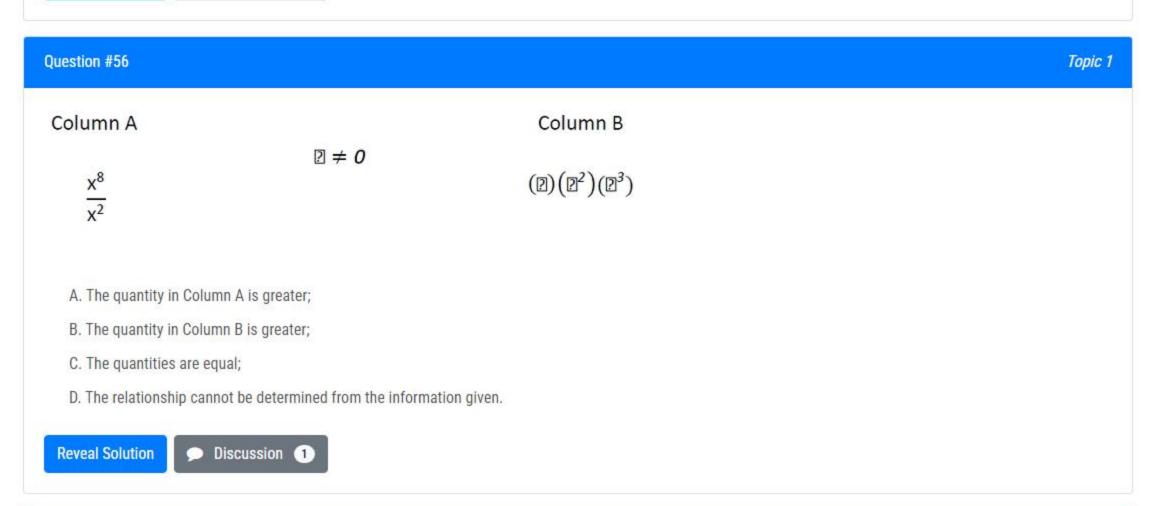


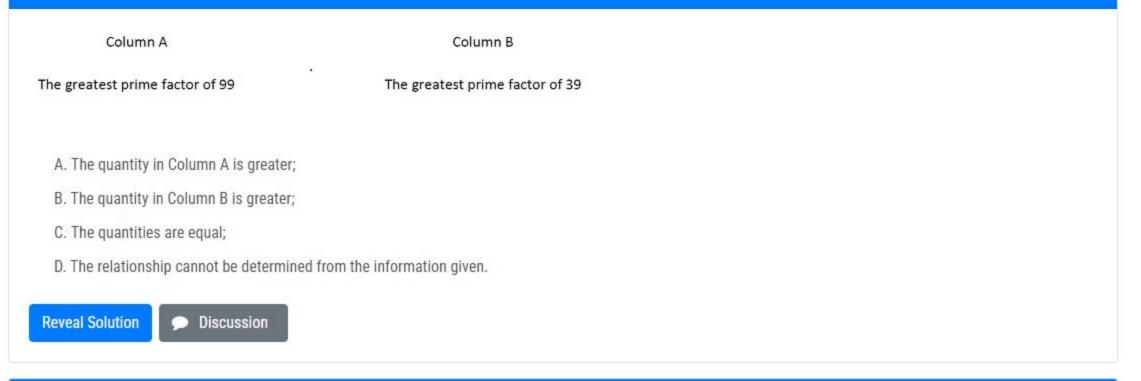


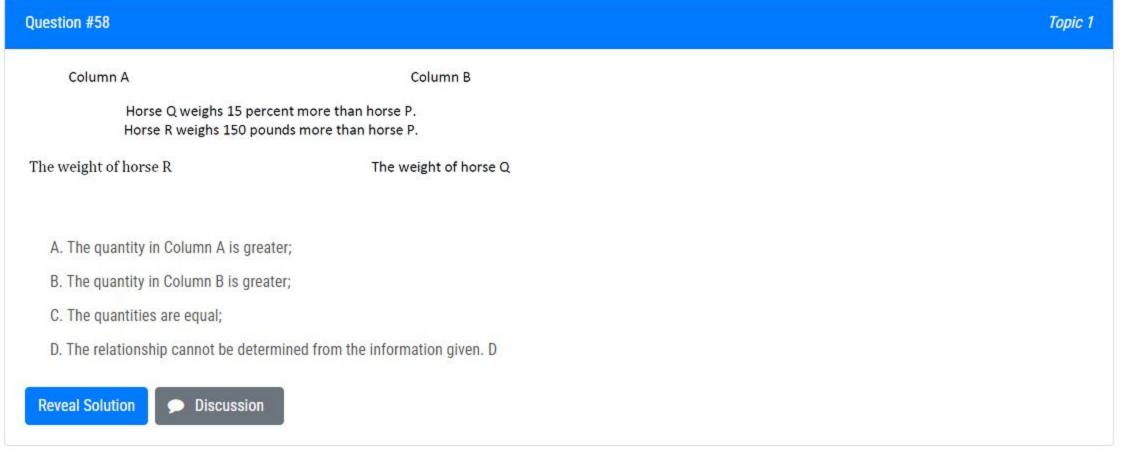
















At the average price of an individual piece of fruit, the total price of 178 apples and 461 pears

At the average price of an individual piece of fruit, the total price of 461 apples and 178

- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.

Reveal Solution



Question #60

Topic 1

Column A

Column B

p, q, and r are positive integers such that p < q < r < 5.

$$p + q + r$$

qr

- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.

Reveal Solution

Question #61 Topic 1 Column A Column B A pail holds 1.5 gallons of water. The number of pails of water needed The number of gallons of water needed to fill a fish tank of a 20-pail to fill a 30-gallon fish tank capacity A. The quantity in Column A is greater; B. The quantity in Column B is greater; C. The quantities are equal; D. The relationship cannot be determined from the information given. Discussion **Reveal Solution**

Question #62 Topic 1

Column A Column B

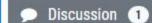
$$A \diamond b = \frac{2 - 2}{2 - 2}$$

$$2\Diamond -1$$

$$-2 \Diamond 4$$

- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.

Reveal Solution





Question #63 Topic 1 Column A Column B $y^2 + y - 6 = 0$ 2 2 A. The quantity in Column A is greater; B. The quantity in Column B is greater; C. The quantities are equal; D. The relationship cannot be determined from the information given. Discussion **Reveal Solution** Question #64 Topic 1 Column A Column B The perimeter of a triangle with The perimeter of a triangle with vertices (0,1), (4,1), and (4,4) on the vertices (2,0), (5,0), and (5,3) on the xy-plane xy-plane A. The quantity in Column A is greater; B. The quantity in Column B is greater; C. The quantities are equal;

D. The relationship cannot be determined from the information given.

Discussion

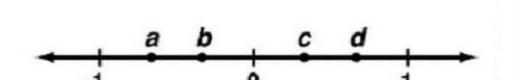
Reveal Solution

Column A

Column B

bc

ad



- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.

Reveal Solution

Discussion

Question #66

Topic 1

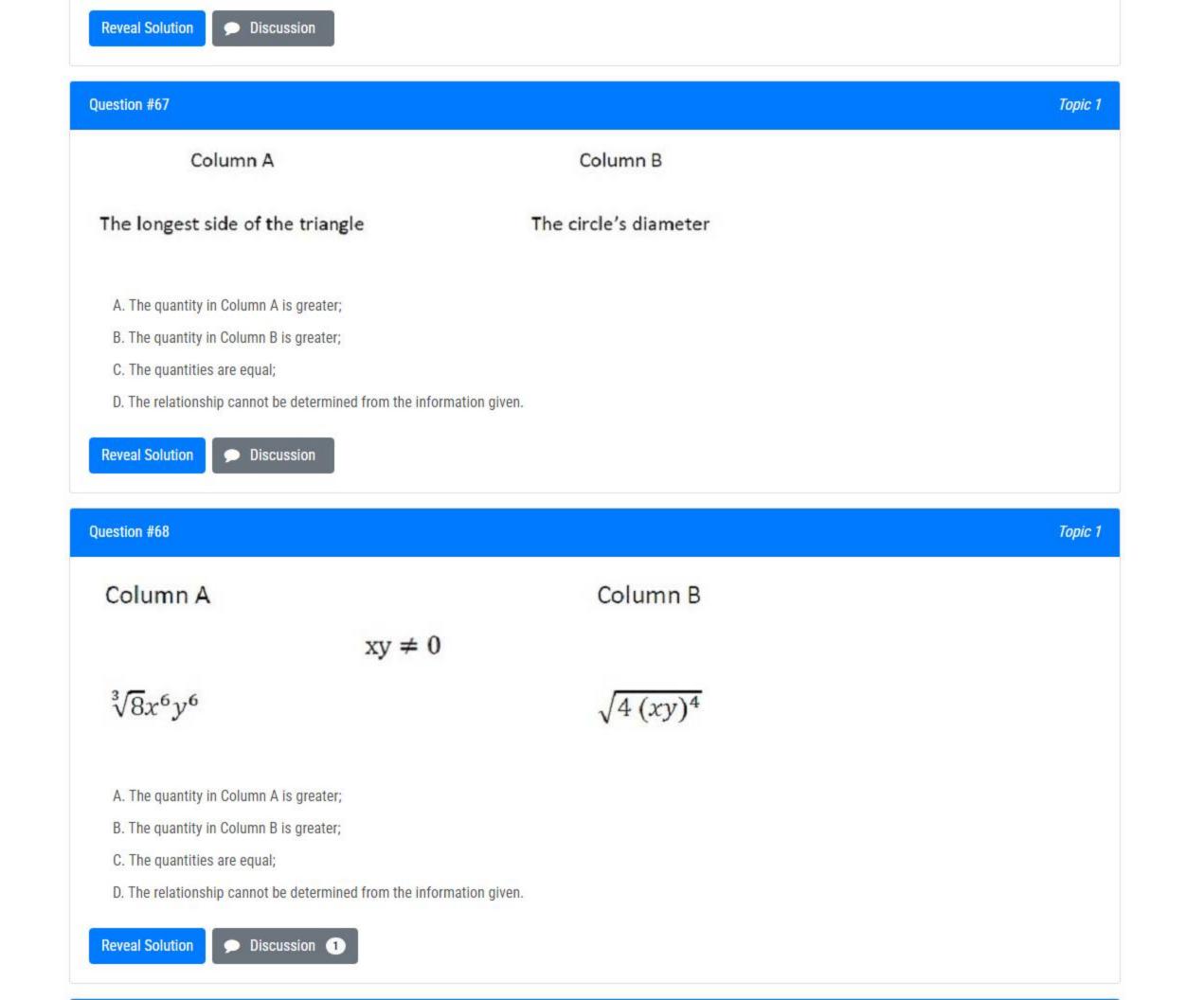
Column A

Column B

$$\frac{8}{17} + \frac{9}{14}$$

$$\frac{7}{16} + \frac{8}{13}$$

- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.



Question #69 Topic 1

The total weight of m bricks, all of which are equal in weight, is n pounds.

Column A

Column B

 $\frac{n}{}$ m

1

- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.

Reveal Solution Discussion

Question #70

Topic 1

Column A

Column B

a, b, c, and d are postive

$$\frac{a}{2} + \frac{b}{6} = \frac{c}{3} + \frac{d}{9}$$

9a + 3b

6c + 3d

- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.

Reveal Solution



Column A

Column B

$$k = 1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \frac{1}{32} + \frac{1}{64} + \frac{1}{128}$$

k

2

- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.

Reveal Solution

Discussion

Question #72

Topic 1

Column A

Column B

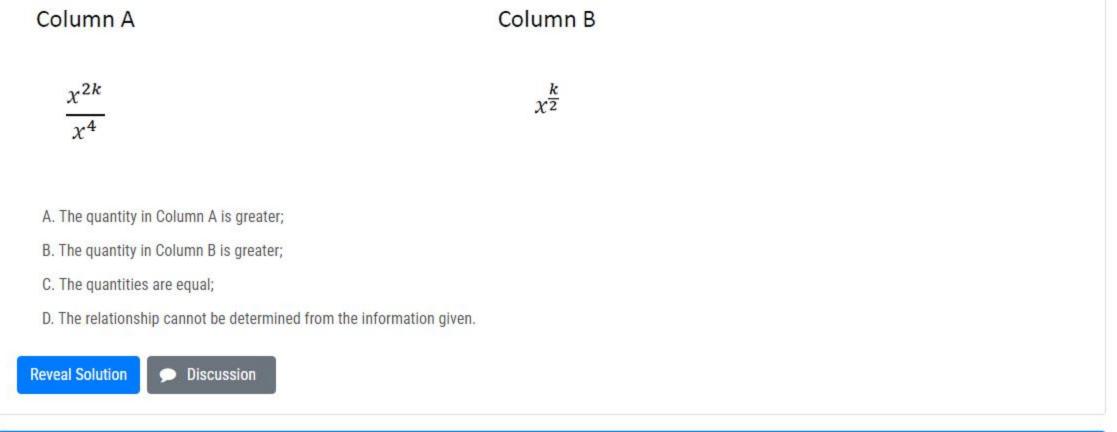
$$n = 1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6} + \frac{1}{7}$$

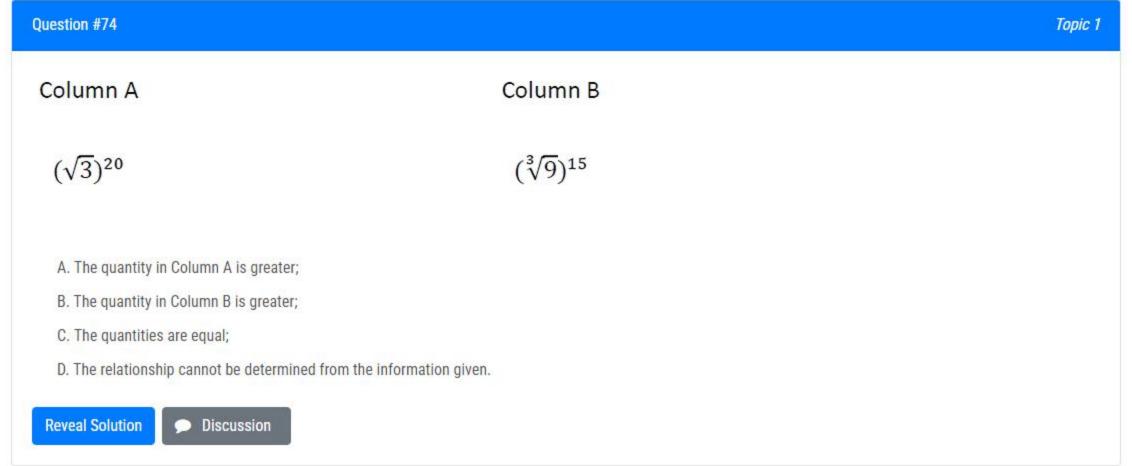
n

3

- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.

Reveal Solution







y < 1xy(x+z) $x^2 + xyz$

- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.

Reveal Solution

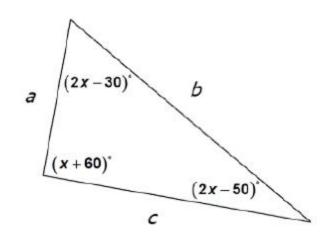
Discussion 1

Question #76

Column A

Column B

Topic 1

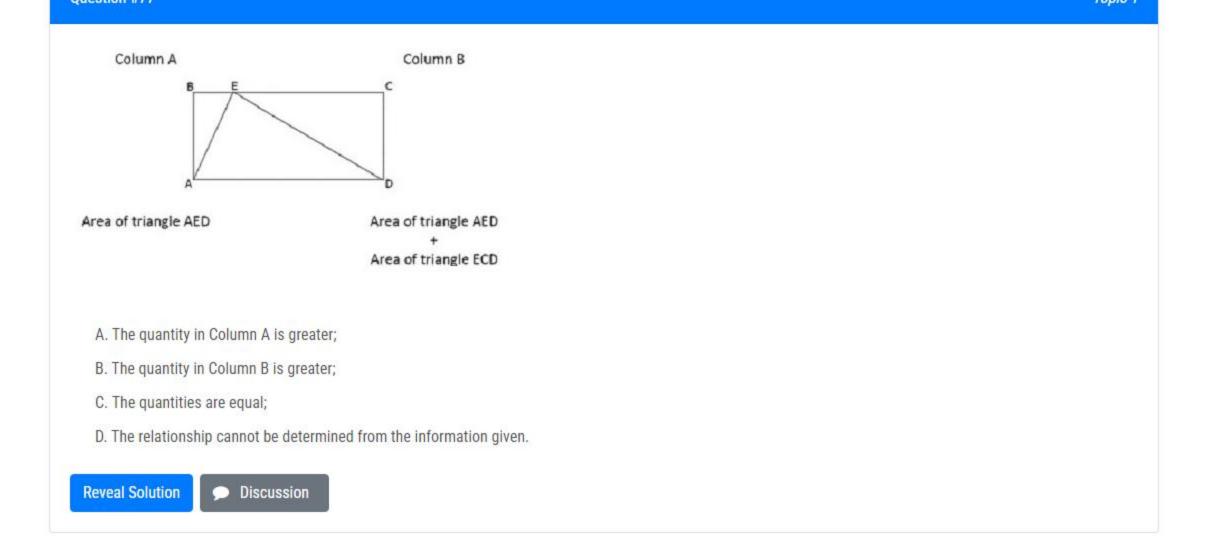


 $a^2 + c^2$

 b^2

- A. The quantity in Column A is greater;
- B. The quantity in Column B is greater;
- C. The quantities are equal;
- D. The relationship cannot be determined from the information given.

Reveal Solution





Question #1 Topic 2

If X > 0 and if X+ 3 is a multiple of 3, which of the following is NOT a multiple of 3?

- A. X
- B. X+6
- C. 2X+6
- D. 3X+5
- E. + 18

Reveal Solution

If m = n and p < q, then which of the following inequalities holds true in all cases?

- A. m p > n q
- B. p m > q n
- C.m-p < n-q
- D.mp > nq
- E. m + q < n + p
- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Reveal Solution

Discussion

Question #3

Topic 2

On the plane, what is the slope of a line that is perpendicular to the line defined by the equation

$$3y = \frac{1}{2}x + 3?$$

- A. 6
- B. -2
- C. -
- D. 2
- E. 3

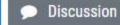
Reveal Solution

Question #4 Topic 2

Fifteen buoys, numbered 1 to 15, are positioned equidistantly along a straight path for a sailboat race. The race begins at buoy 1, and 45 minutes into the race the fastest boat reaches buoy 10. At the same average speed, how many minutes will it take the boat to race from buoy 10 to buoy 15?

- A. 45
- B. 32.5
- C. 25
- D. 22.5
- E. 15

Reveal Solution



Question #5 Topic 2

SIMULATION -

Cynthia drove for seven hours at an average rate of 50 miles per hour (mph) and for one hour at an average rate of 60 mph. What was her average rate for the entire trip?

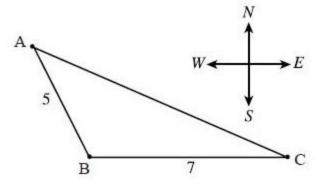
miles per hour

Express you answer as a decimal number to the nearest two places right of the decimal point.

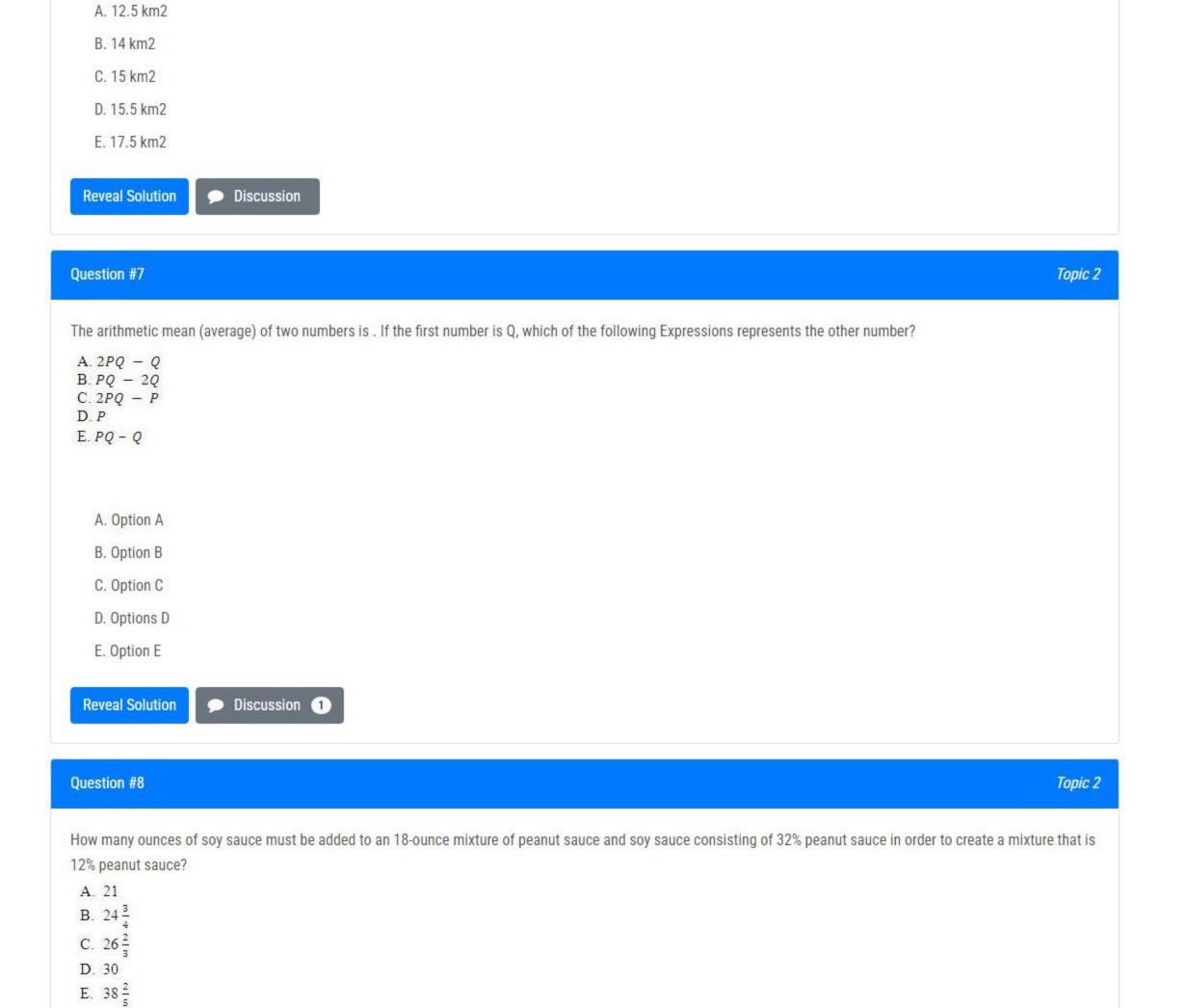
Reveal Solution

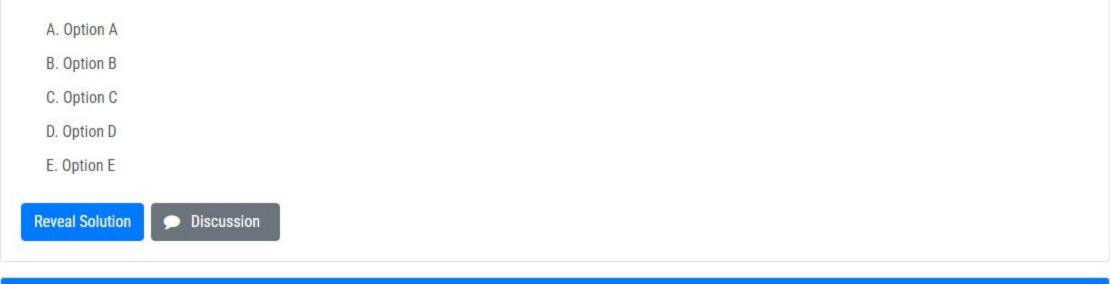


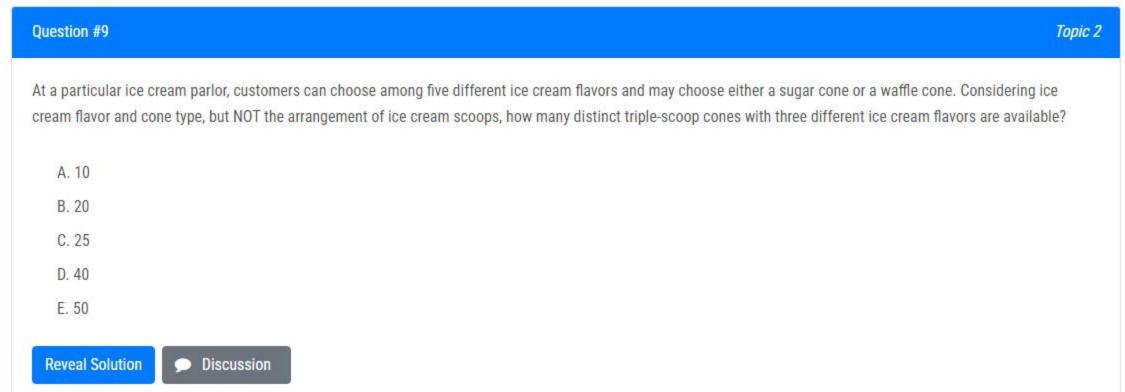
Question #6 Topic 2

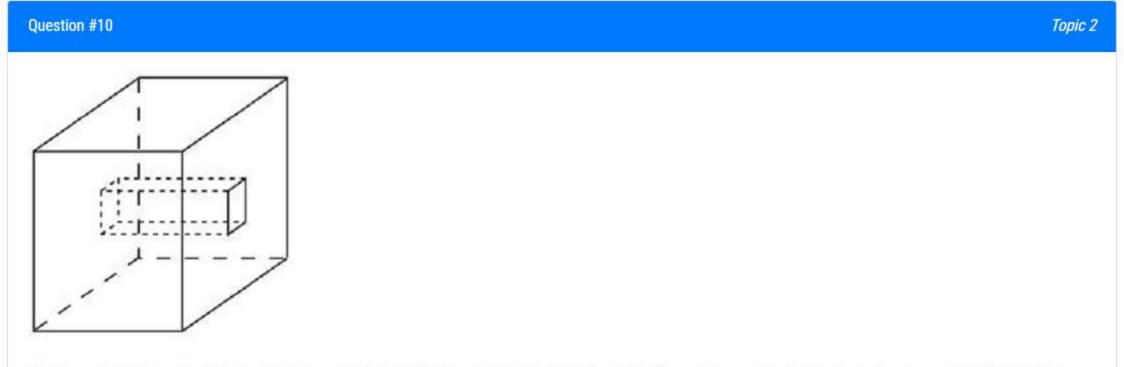


Once a month, a crop duster sprays a triangular area defined by three farm houses: A, B, and C, as indicated in the figure. Farmhouse C is located 7 kilometers due east of farmhouse B, as shown. If farmhouse A is located 10 kilometers further west than farmhouse C, what is the total area that the crop duster sprays?









The figure above shows a solid cube 3 inches on a side but with a 1-inch square hole cut through it. How many square inches is the total surface area of the resulting

solid figure?

A. 24

B. 42

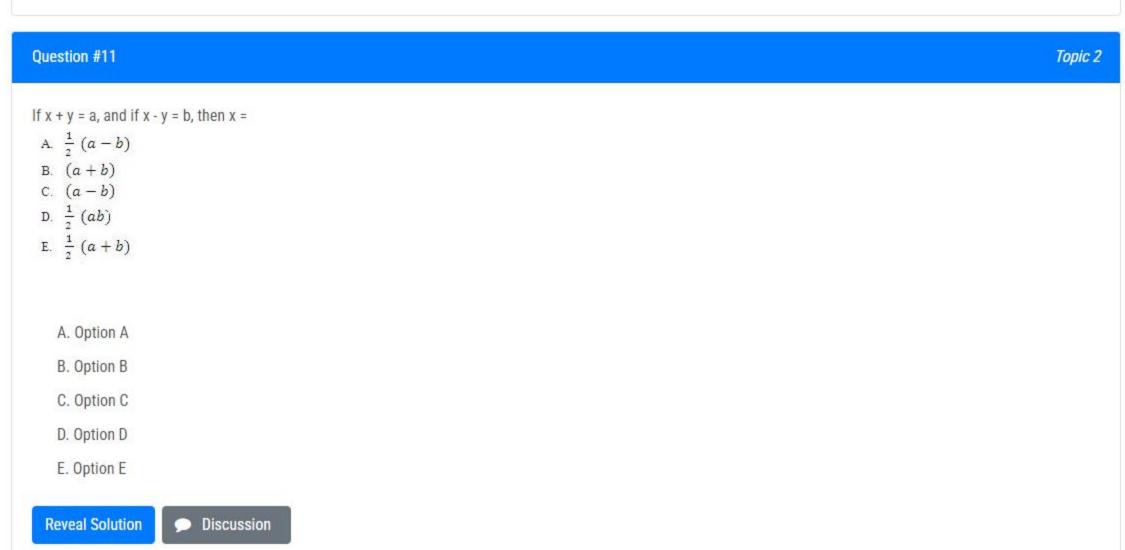
C. 52

D. 64

E. 66

Reveal Solution

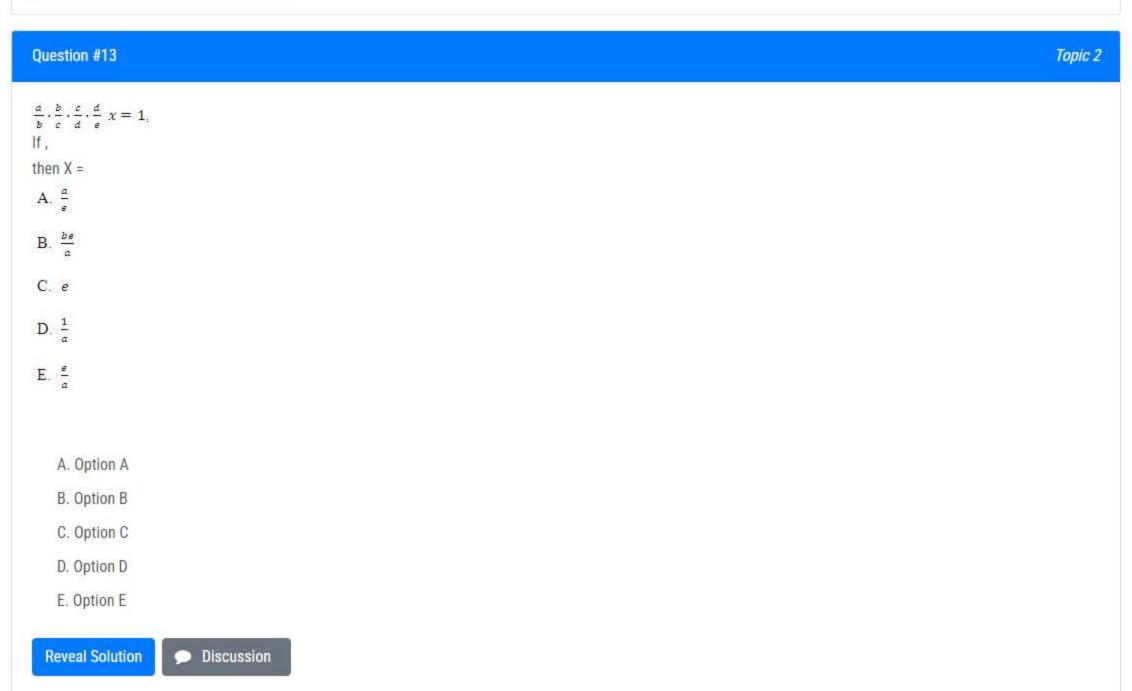
Discussion



If one dollar can buy m pieces of paper, how many dollars are needed to buy p reams of paper? [1 ream = 500 pieces of paper.]

A. $\frac{500 \text{ p}}{m}$ B. $\frac{m}{500 \text{ p}}$ C. $\frac{500}{p+m}$



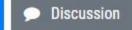


Temperature (F°)	Number of Days in April (Low Daily Temperature)	Number of Days in April (High Daily Temperature)
41°-45°	14	3
46°-50°	12	9
51° and above	4	18

The table shows the distribution of daily low and daily high temperatures in a certain location during each of the 30 days in April. Recorded low and high temperatures were rounded to the nearest Fahrenheit degree (F). What was the range of daily high temperatures during the month of April?

- A. 10 degrees
- B. 14 degrees
- C. 15 degrees
- D. 51 degrees
- E. It cannot be determined from the information given.

Reveal Solution



Question #15 Topic 2

Kirk sent \$54 to the newspaper dealer for whom he delivers papers, after deducting a 10% commission for himself. If newspapers sell for 40 cents each, how many papers did Kirk deliver?

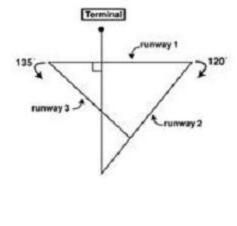
- A. 150
- B. 210
- C. 240
- D. 320
- E. 610

Reveal Solution



Question #16 Topic 2

As shown in the figure, from runway 1 airplanes must turn 120 to the right onto runway 2 or 135 to the left onto runway 3. Which of the following indicate(s) a complete turn from one runway to another?



- 1. 45 -
- II. 85 -
- III. 105 -
 - A. II only
 - B. III only
 - C. I and III only
 - D. II and III only
 - E. I, II, and III

Reveal Solution

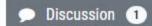
Discussion

Question #17 Topic 2

In a geometric sequence, each term is a constant multiple of the preceding one. If the first three terms in a geometric sequence are 22, x, and 28, which of the following could be the sixth term in the sequence?

- A. 512
- B. 256
- C. 64
- D. -17
- E. -128

Reveal Solution



Ougation #10

Question #10

SIMULATION -

A certain line on the xy-plane contains the (x, y) points (-2, 1) and (3, 5). What is the slope of the line?

Express your answer as a simple fraction. To indicate a negative fraction, enter a dash (minus sign) before either the numerator number or the denominator number.



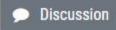
Question #19 Topic 2

M college students agree to rent an apartment for D dollars per month, sharing the rent equally. If the rent is increased by \$100, what amount must each student contribute?

- B. $\frac{D}{M} + 100$
- C. $\frac{D}{M}$

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Reveal Solution



Question #20 Topic 2





In the figure above, the centers of all three circles lie on the same line. The radius of the middle-sized circle is twice that of the smallest circle. If the radius of the smallest circle is 1, what is the length of the boundary of the shaded region?

- A. 12π
- Β. 6 π
- C. 12
- D. 3π
- E.9
- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E B

Reveal Solution



Question #21 Topic 2

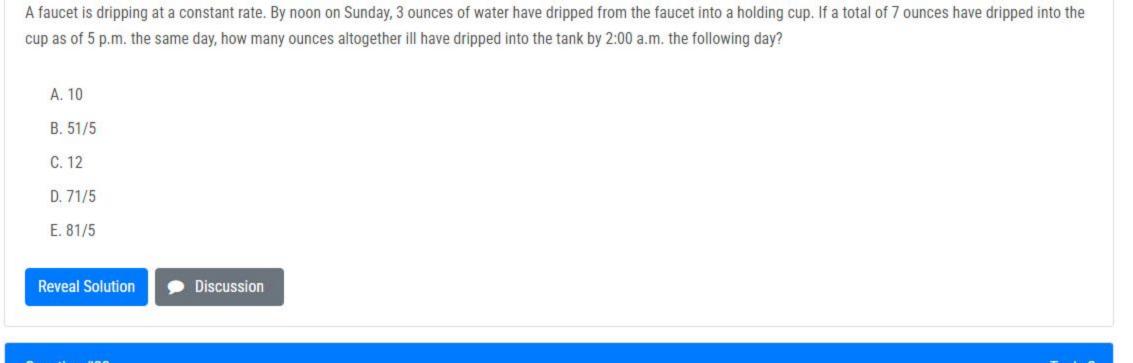
Among registered voters in a certain district, the ratio of male to female voters is 3:5. If the district currently includes 2,400 registered voters, how many additional males must register to make the ratio 4:5, assuming the number of female voters remains unchanged?

- A. 120
- B. 150
- C. 240
- D. 300
- E. 360

Reveal Solution

Discussion

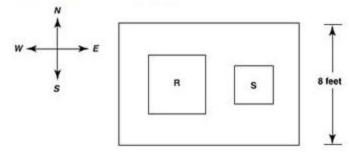
Question #22 Topic 2



Question #23 Topic 2

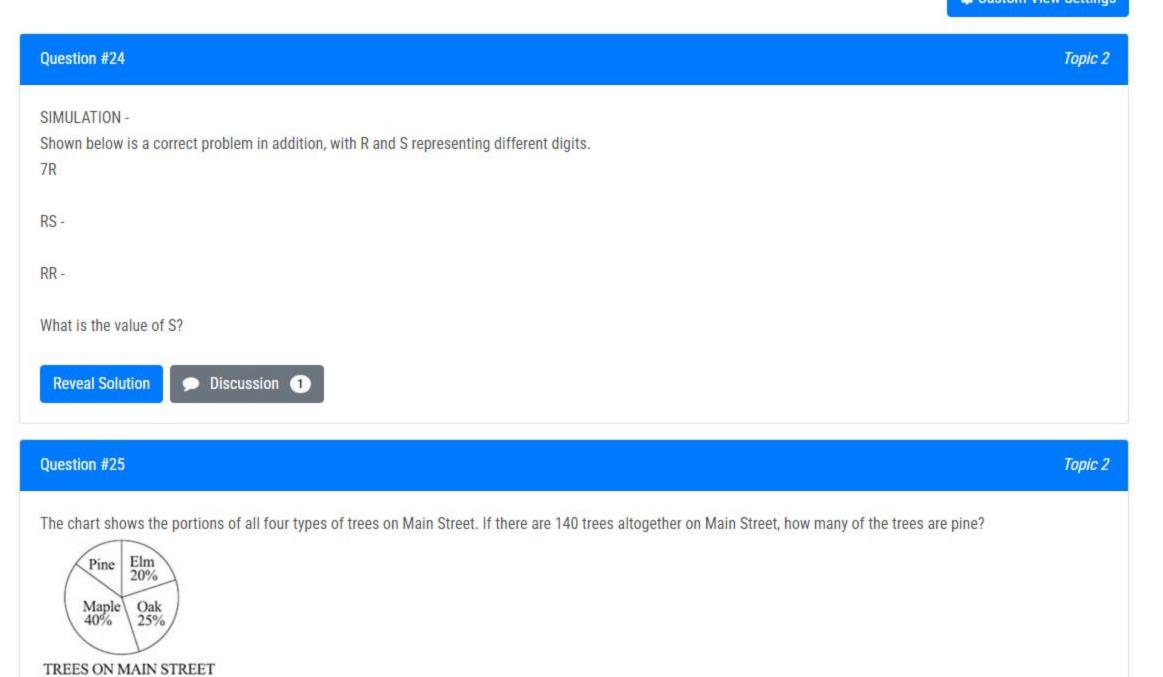
Two square rugs R and S, which have a combined area of 20 square feet, are placed on a rectangular floor whose area is 112 square feet, as shown above.

Measured east to west, each rug is placed the same distance from the other rug as from the nearest east or west edge of the floor. If the area of rug R is four times the area of rug S, how far apart are the rugs?



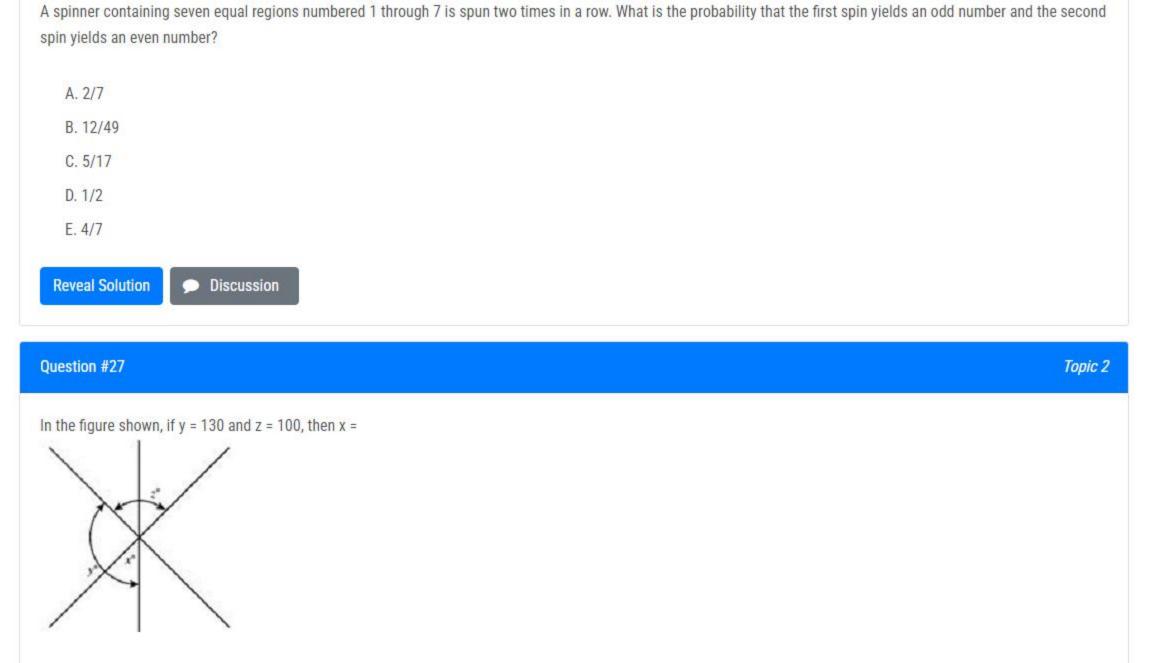
- A. 3 feet, 4 inches
- B. 3 feet
- C. 2 feet, 8 inches
- D. 2 feet
- E. 1 feet, 6 inches

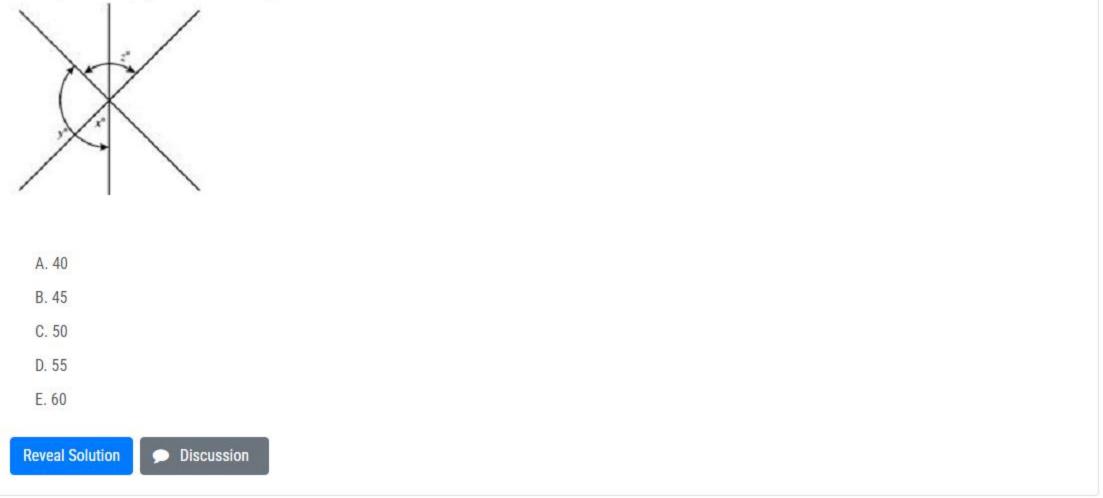
Reveal Solution Discussion



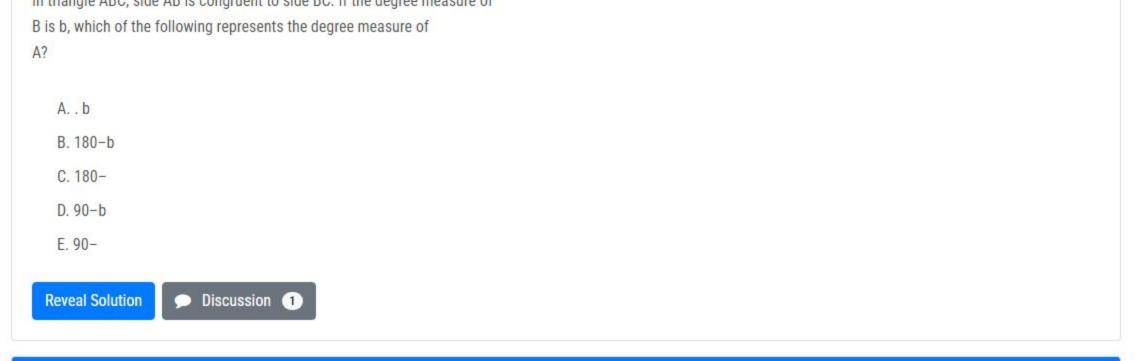
- A. 40
- B. 24
- C. 21
- D. 15
- E. 14

Reveal Solution Discussion











Question #30 Topic 2

It takes Paul m minutes to mow the lawn. Assuming he mows at a constant rate, after Paul mows for k minutes, what part of the lawn remains to be mowed?

- (A) $\frac{m-1}{m}$
- (B) $\frac{n}{k}$
- (C) $1 \frac{k}{m}$

- (D) $\frac{k}{}$
- (E) $\frac{k}{m}$
- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Reveal Solution

Discussion

Question #31 Topic 2

The table shows the average price of gasoline among 50 gasoline-service stations on three different days, along with the number of stations charging more and less than the average on each day.

Based on the information in the table, which of the following statements about the price of gasoline among all 50 stations must be true?

Average (Mean) Gasoline Price Among 50 Stations	Number of Stations Charging More Than Average Price	Number of Stations Charging Less Than Average Price
January 1st: \$2.50	22	17
February 1st: \$2.65	15	28
March 1st: \$2.40	23	23

- I. On February 1st, the median price was less than the average price
- II. On March 1st, the average price was equal to the median price.
- III. The median price on March 1st was less than the median price on January 1st.
 - A. I only
 - B. I and II only
 - C. I and III only
 - D. II and III only
 - E. I, II, and III

Reveal Solution

The interior angles of a certain quadrilateral are measured at the ratio 1:2:3:4. If each interior angle measures less than 180, what is the sum of the degree measures of the smallest and largest among these four angles?

Topic 2

- A. 218°
- B. 204°
- C. 180°
- D. 148°
- E. 108°

Reveal Solution

Discussion

Question #33

$$x \ 2, \frac{x^2 - 4}{x^2 - 2x} =$$

For all -

- A. $x \frac{4}{x}$
- B. $\frac{1}{2x}$
- C. 2x + 1
- D. 2 x
- E. $1 + \frac{2}{x}$
- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

LOLE P. .



Question #36 Topic 2

If a building b feet high casts a shadow f feet long, then, at the same time of day, a tree t feet high will cast a shadow how many feet long?

- A. $\frac{t}{f}$
- B. $\frac{fb}{t}$
- C. $\frac{b}{ft}$
- D. $\frac{tk}{f}$
- E. $\frac{ft}{b}$
- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E E

Reveal Solution

Discussion

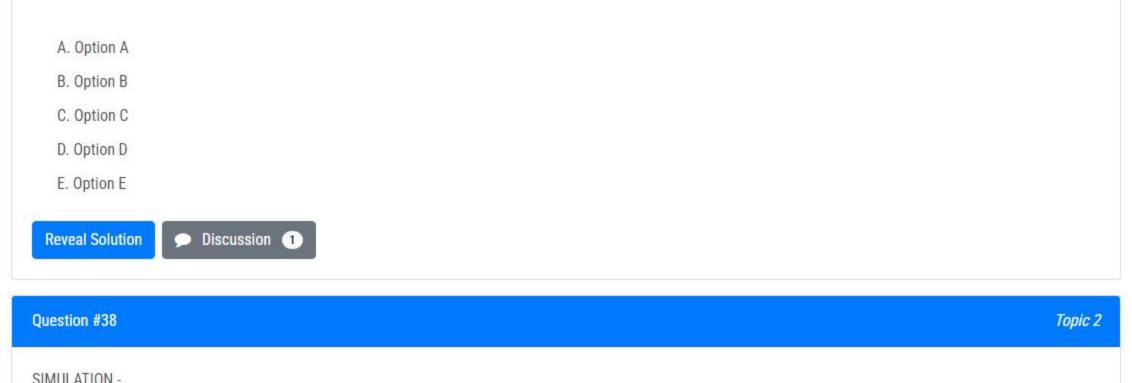
Question #37

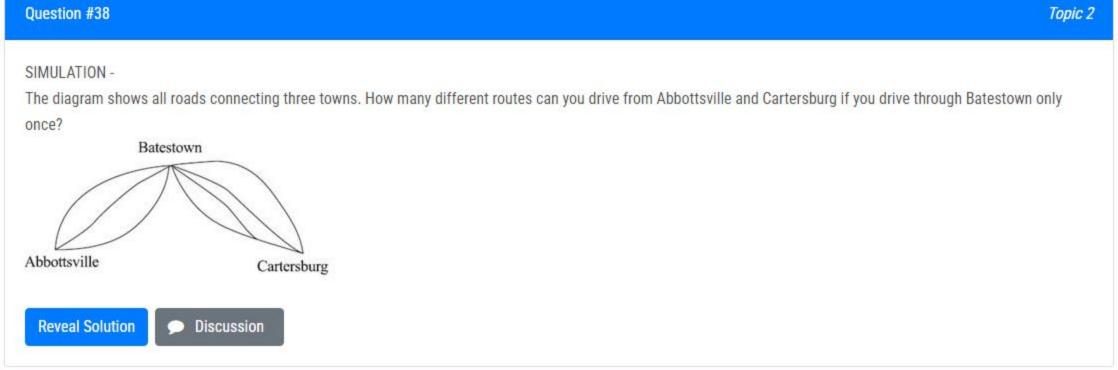
In the standard coordinate plane, lines a and b intersect at point, and lines b and c intersect at point. What is the slope of line?

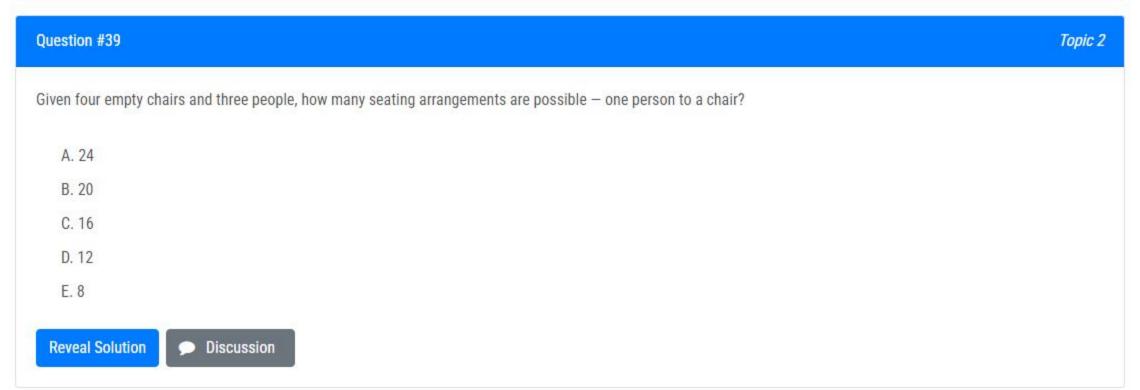
- A. $\frac{1}{2}$
- B. $-\frac{5}{2}$
- C. $-\frac{2}{5}$
- D. $-\frac{5}{8}$

E. It cannot be determined from the information given.

Topic 2







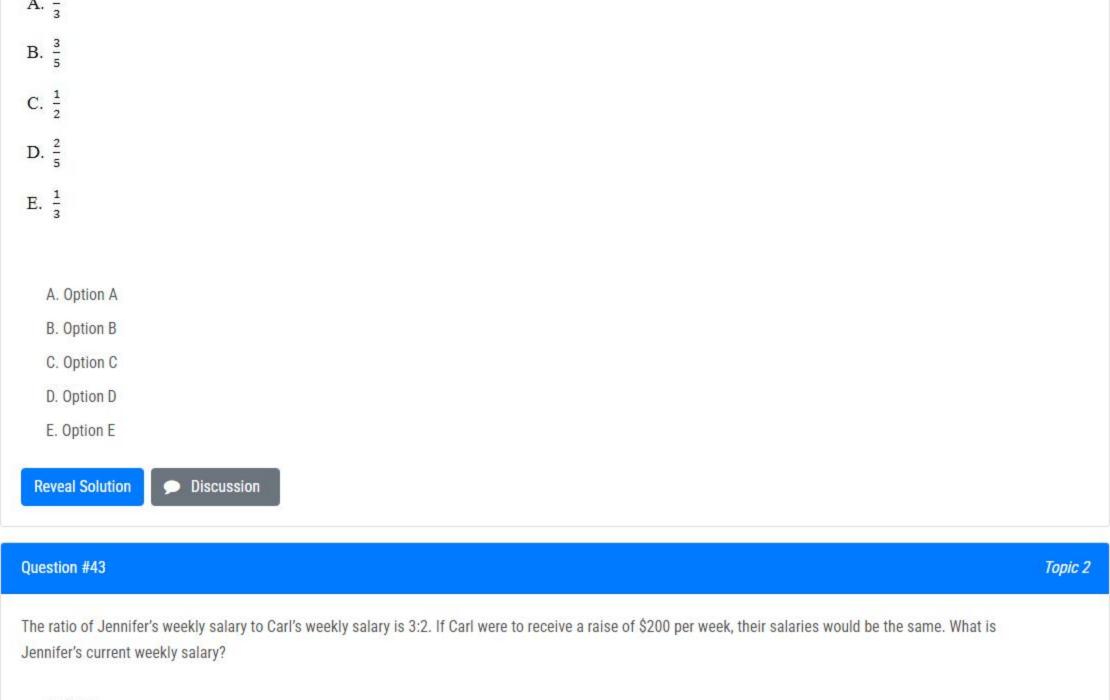
Question #40 Topic 2 In the figure, O lies at the center of the larger circle. What is the ratio of the smaller circles area to the larger circles area? A. 1:12 B. 1:15 C. 2:3 D. 1:4 E. 1:5 Discussion **Reveal Solution**

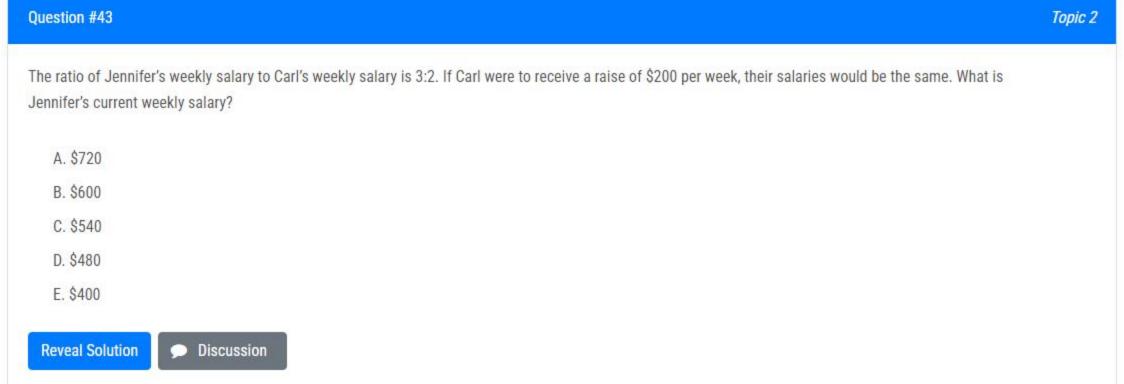


Question #42 Topic 2

A drawer contains four pairs of socks: two gray pairs and two blue pairs. If two pairs are selected at random, what is the probability of choosing a blue pair and a gray pair?

....







SIMULATION -

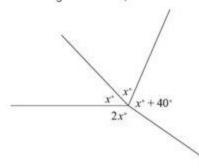
The number of attendees at a certain annual conference is 256 this year and has always doubled every five years. How many people attended the conference 20 years

Click on the answer box, then type in a number. Backspace to erase.



Question #45 Topic 2

In the figure above, what is the value of x?



- A. 36
- B. 40
- C. 60
- D. 64
- E. 72

Reveal Solution





Topic 2

The length of Cassies family room is exactly two thirds the length of her master bedroom. Both rooms are rectangular, and the area of the two rooms is the same. If Cassies family room has a length of L and a width of W, which of the following represents the perimeter of her master bedroom?

- A. $2L + \frac{4}{3}W$
- B. $3L + \frac{2}{3}W$
- C. $3L + \frac{1}{3}W$
- D. $\frac{3}{2}L + W$
- E. $3L + \frac{4}{3}W$
 - A. Option A
 - B. Option B
 - C. Option C
 - D. Option D
 - E. Option E

Reveal Solution



Discussion

The number 40.5 is 500 times larger than which of the following numbers?

A. 0.810

Question #47

- B. 0.2025
- C. 0.0810



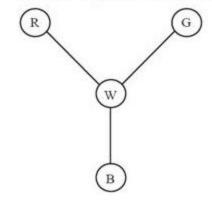
E. 0.00810

Reveal Solution



Question #48 Topic 2

In the simple light show pictured above, a light starts at the center (white) at time zero and moves once every second in the following pattern: from white (W) to blue (B), back to white, then to green (G), back to white, then to red (R), and back to white in a counter-clockwise direction. If the light continues to move in this way, what will be the color sequence from the 208th second to the 209th second?



- A. white to green
- B. white to blue
- C. white to red
- D. red to white
- E. green to white

Reveal Solution

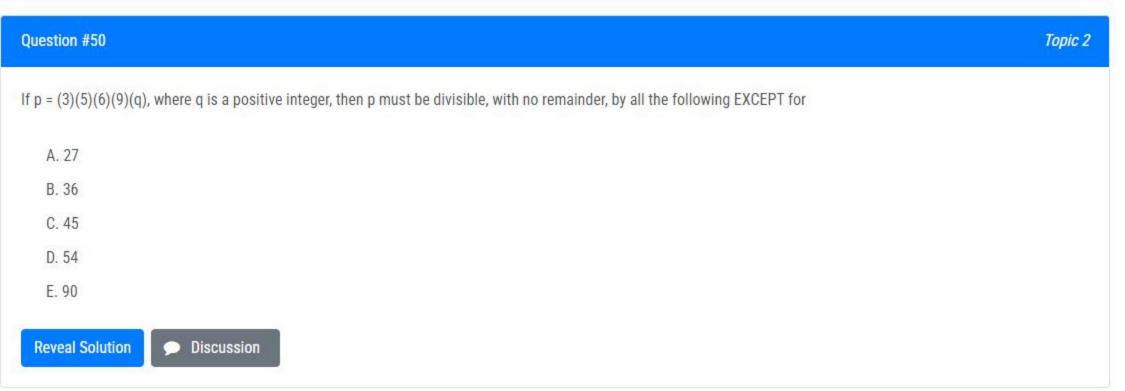


Discussion

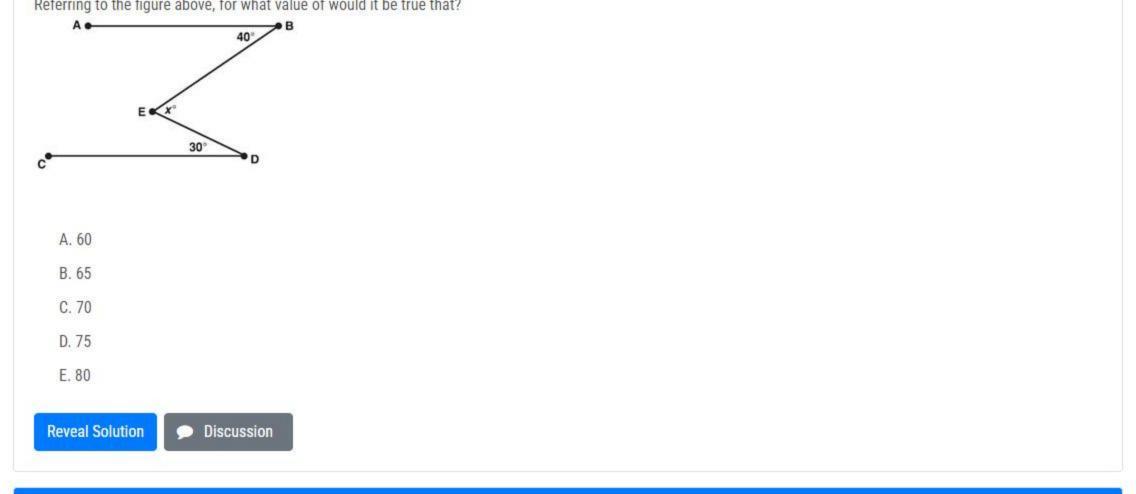
Question #49 Topic 2

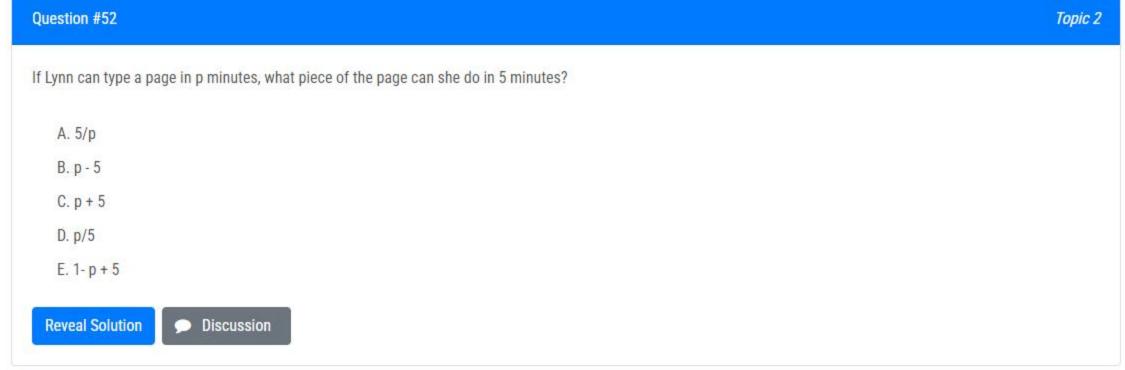
A solution of 60 ounces of sugar and water is 20% sugar. If you add x ounces of water to make a solution that is 5% sugar, which of the following represents the amount



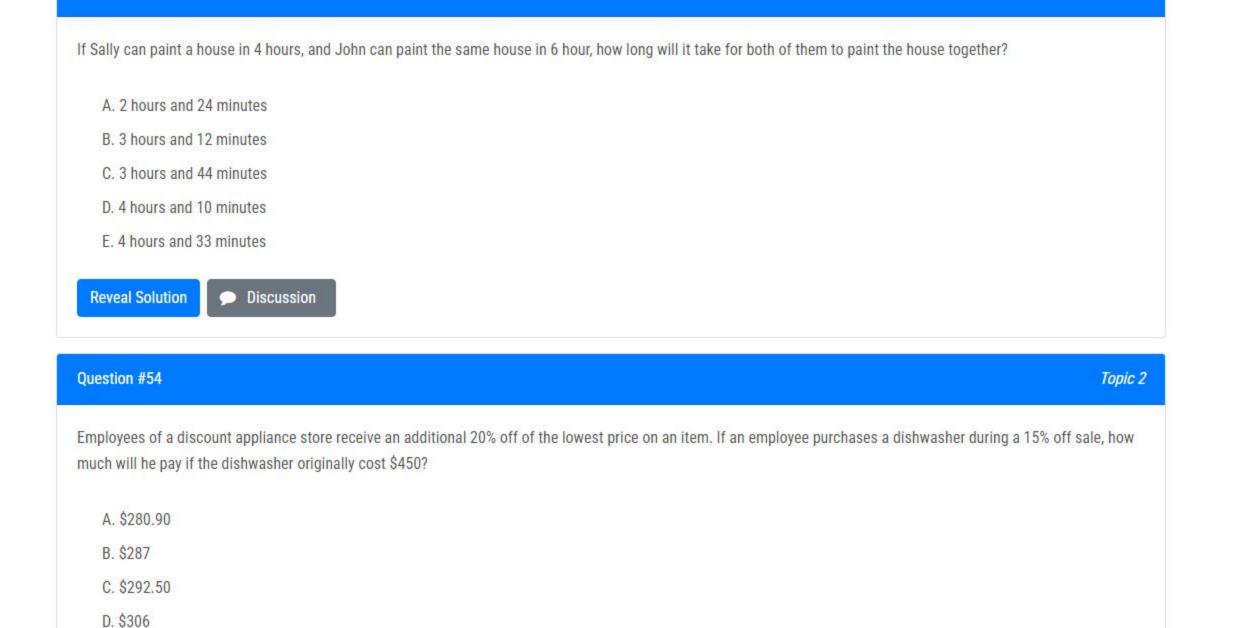


Question #51 Topic 2





Question #53 Topic 2



Topic 2

E. \$333.89

Reveal Solution

A \$14310 40

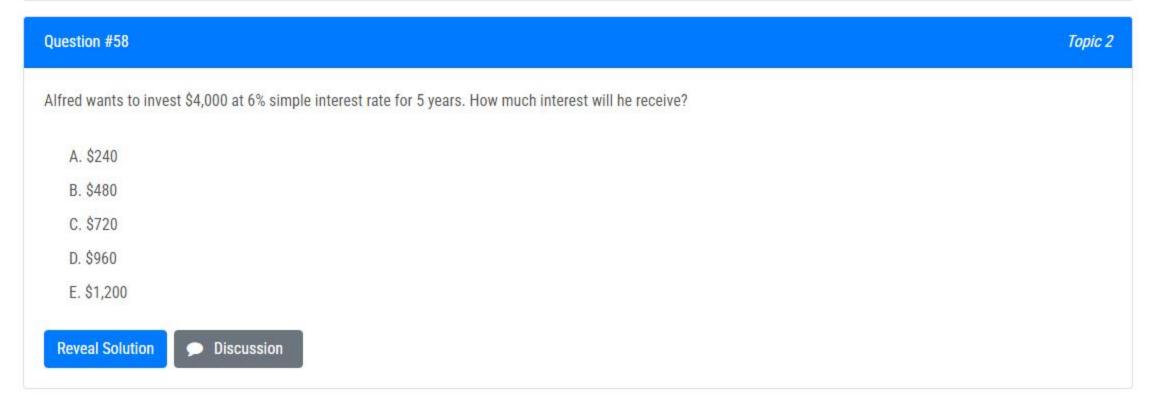
Question #55

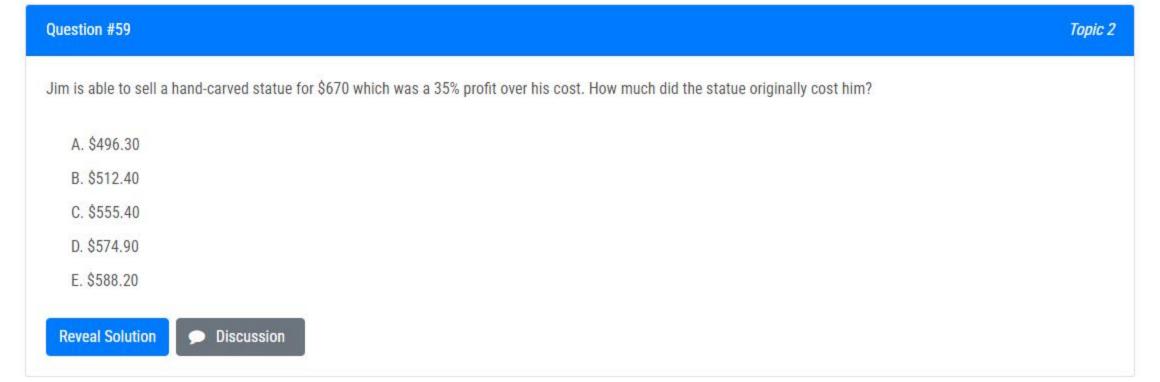
Discussion

The sales price of a car is \$12,590, which is 20% off the original price. What is the original price?









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Question #ou Topic 2

The city council has decided to add a 0.3% tax on motel and hotel rooms. If a traveler spends the night in a motel room that costs \$55 before taxes, how much will the city receive in taxes from him?

- A. 10 cents
- B. 11 cents
- C. 15 cents
- D. 17 cents
- E. 21 cents

Reveal Solution



Question #61

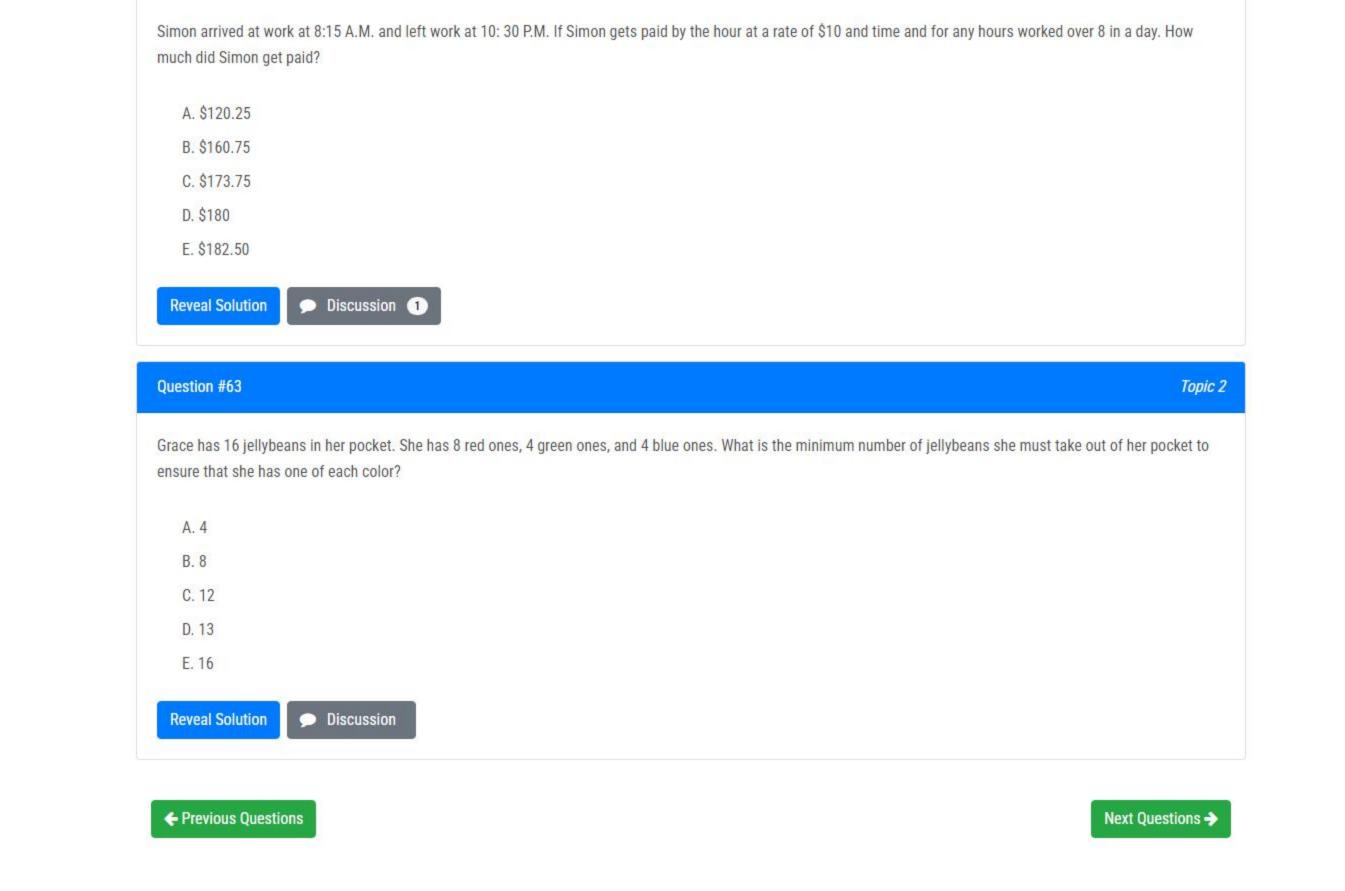
A student receives his grade report from a local community college, but the GPA is smudged. He took the following classes: a 2 hour credit art, a 3 hour credit history, a 4 hour credit science course, a 3 hour credit mathematics course, and a 1 hour science lab. He received a "B" in the art class, an "A" in the history class, a "C" in the science class, a "B" in the mathematics class, and an "A" in the science lab. What was his GPA if the letter grades are based on a 4 point scale? (A=4, B=3, C=2, D=1, F=0)

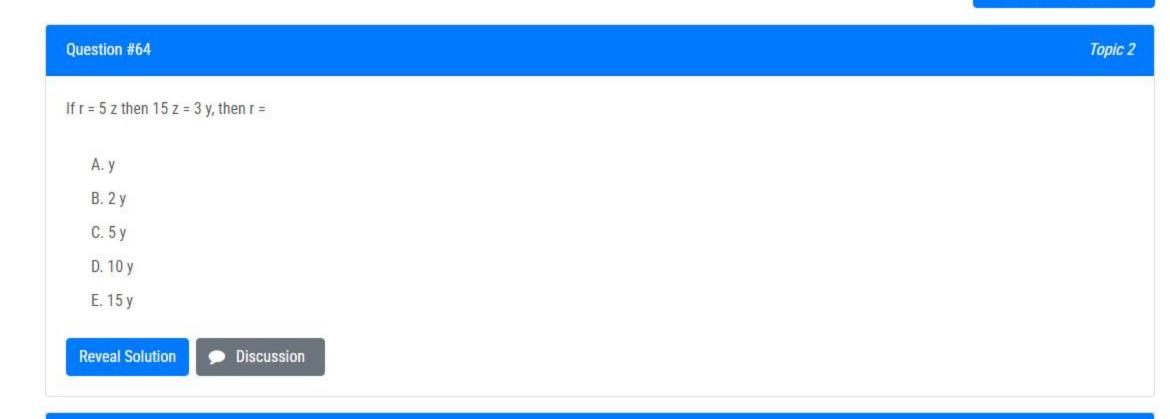
- A. 2.7
- B. 2.8
- C. 3.0
- D. 3.1
- E. 3.2

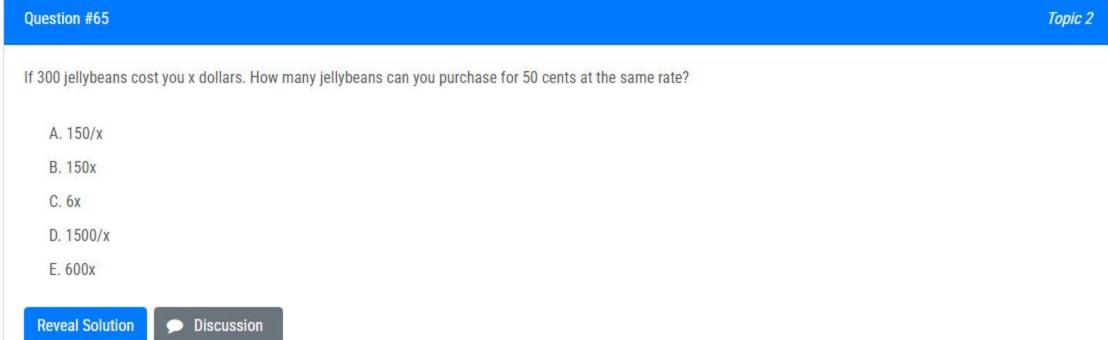
Reveal Solution

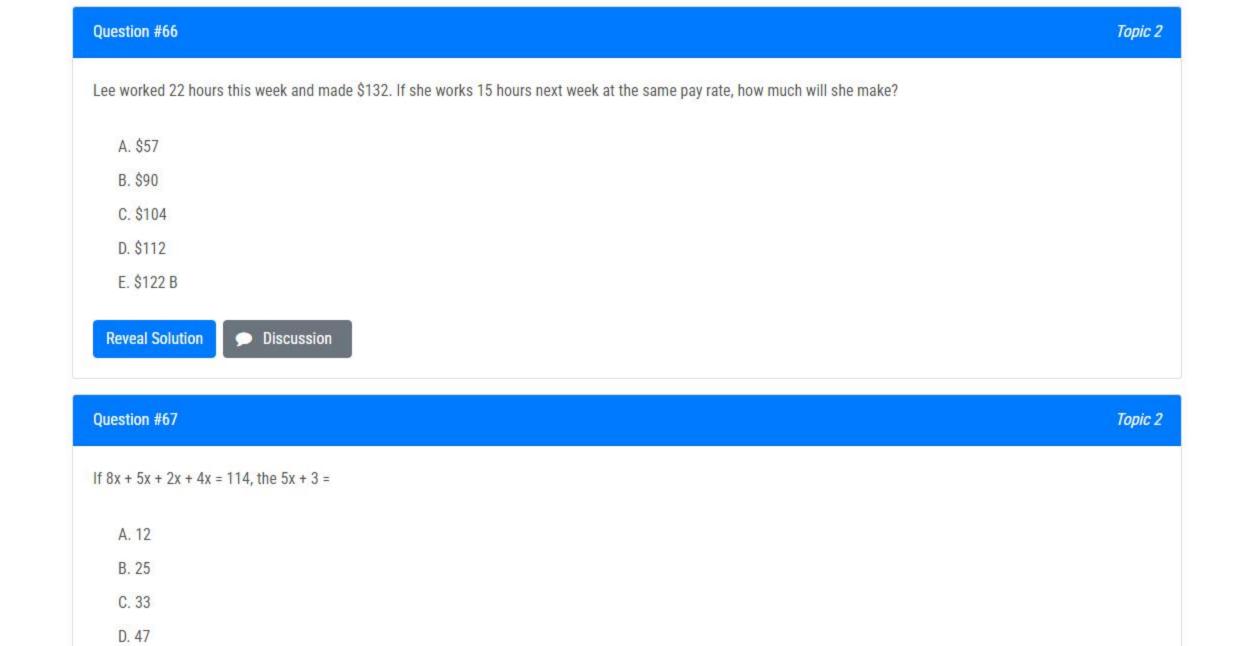
Discussion

Topic 2



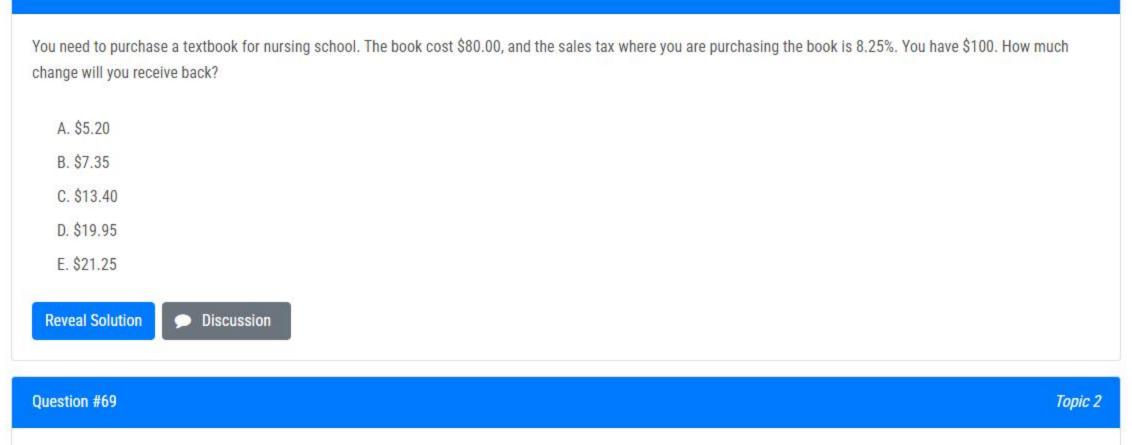


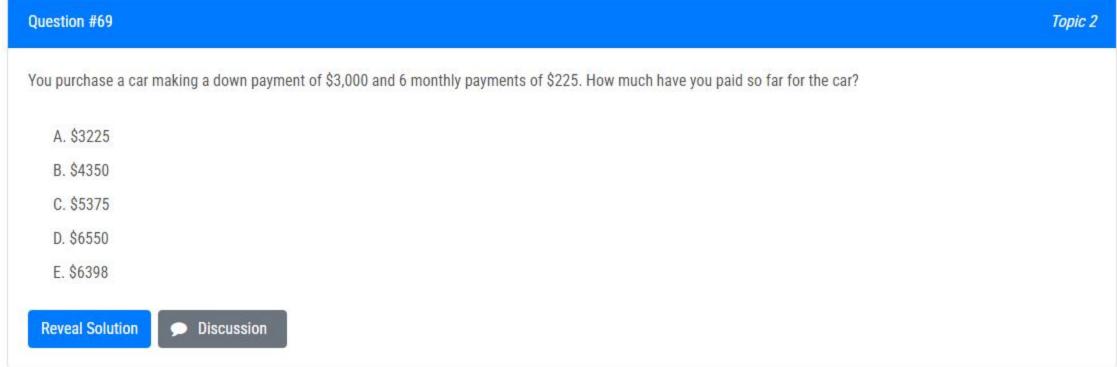




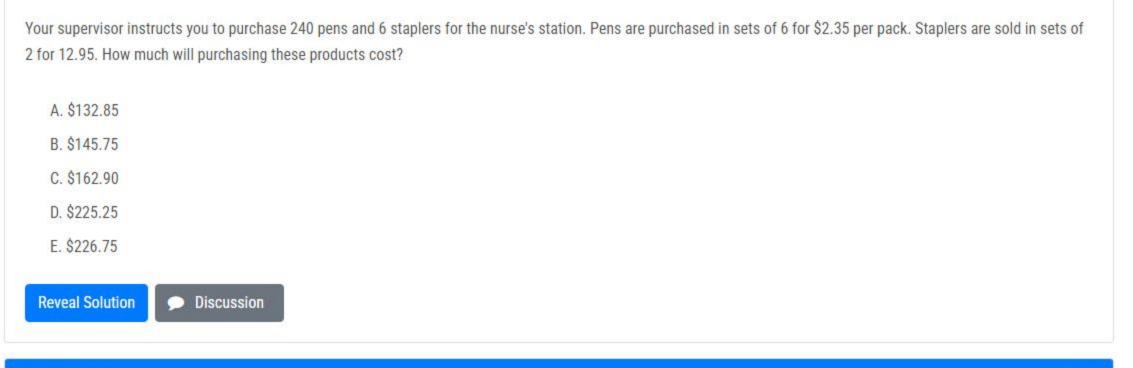
E. 86

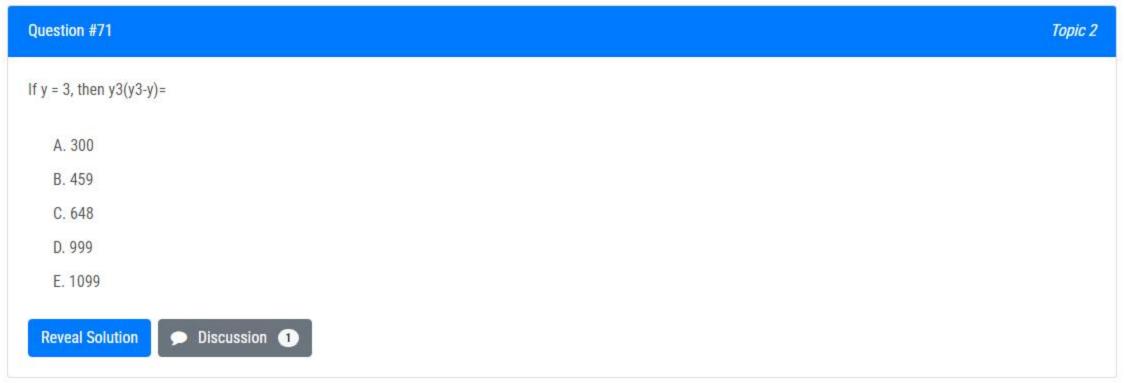
Reveal Solution Discussion



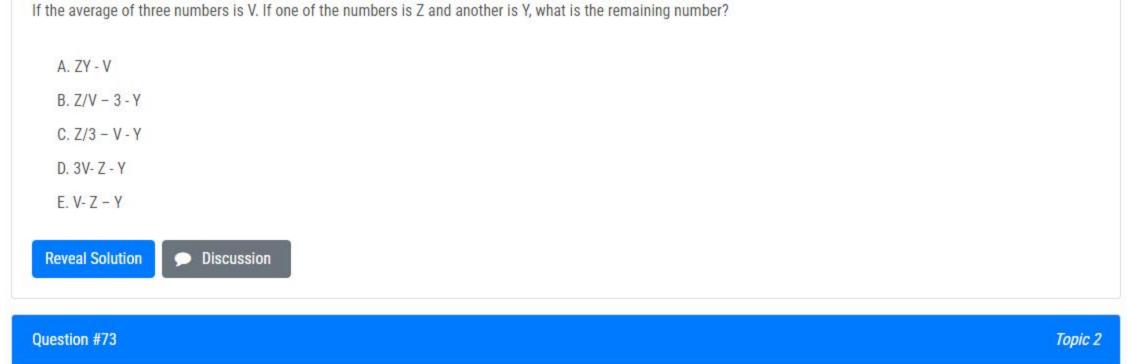


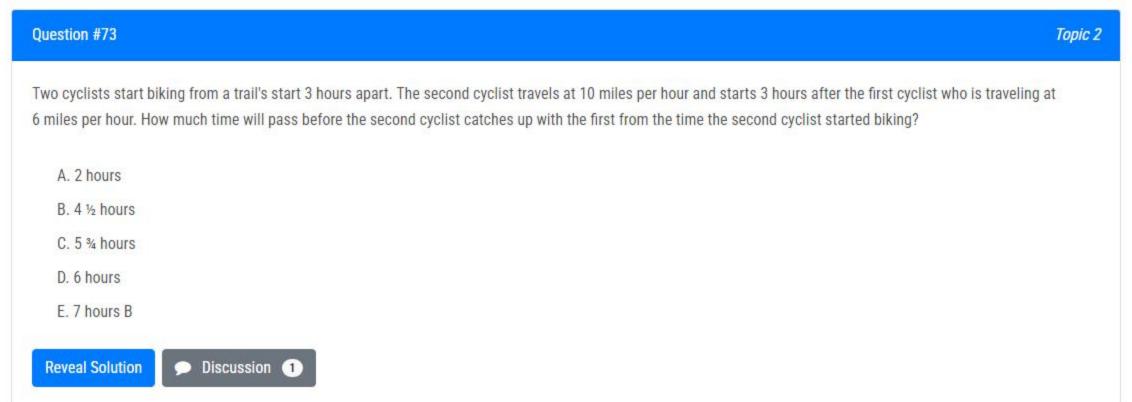
Question #70 Topic 2





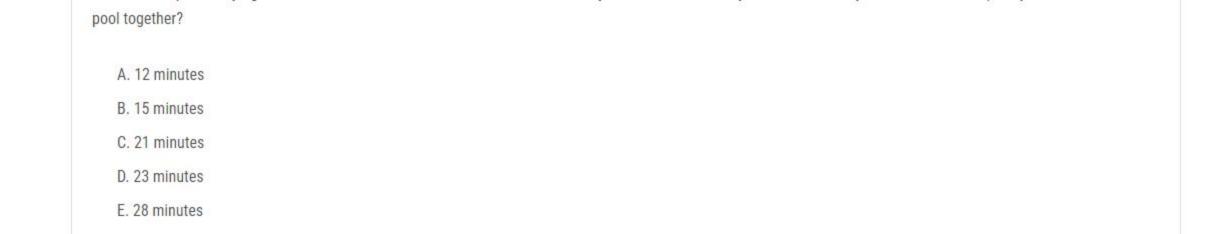
Question #72 Topic 2





Question #74 Topic 2

Jim can fill a pool carrying buckets of water in 30 minutes. Sue can do the same job in 45 minutes. Tony can do the same job in 1 hours. How guickly can all three fill the



Question #75 Topic 2

Mary is reviewing her algebra quiz. She has determined that one of her solutions is incorrect. Which one is it?

A.
$$2x + 5(x-1) = 9x = 2$$

Reveal Solution Discussion 2

B.
$$p - 3(p-5) = 10 p = 2.5$$

C.
$$4y + 3y = 28y = 4$$

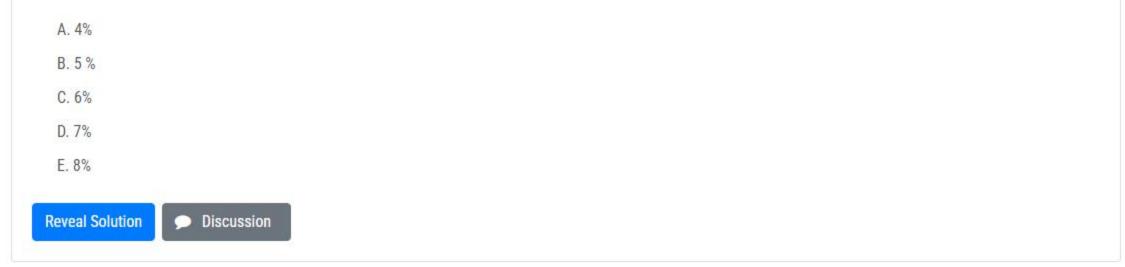
D.
$$5 w + 6 w - 3w = 64 w = 8$$

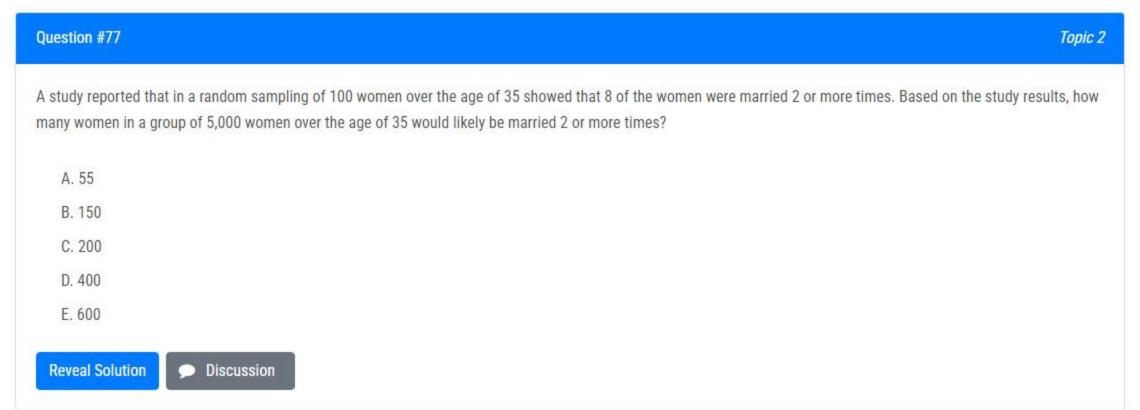
E.
$$t - 2t - 3t = 32t = 8$$



Question #76 Topic 2

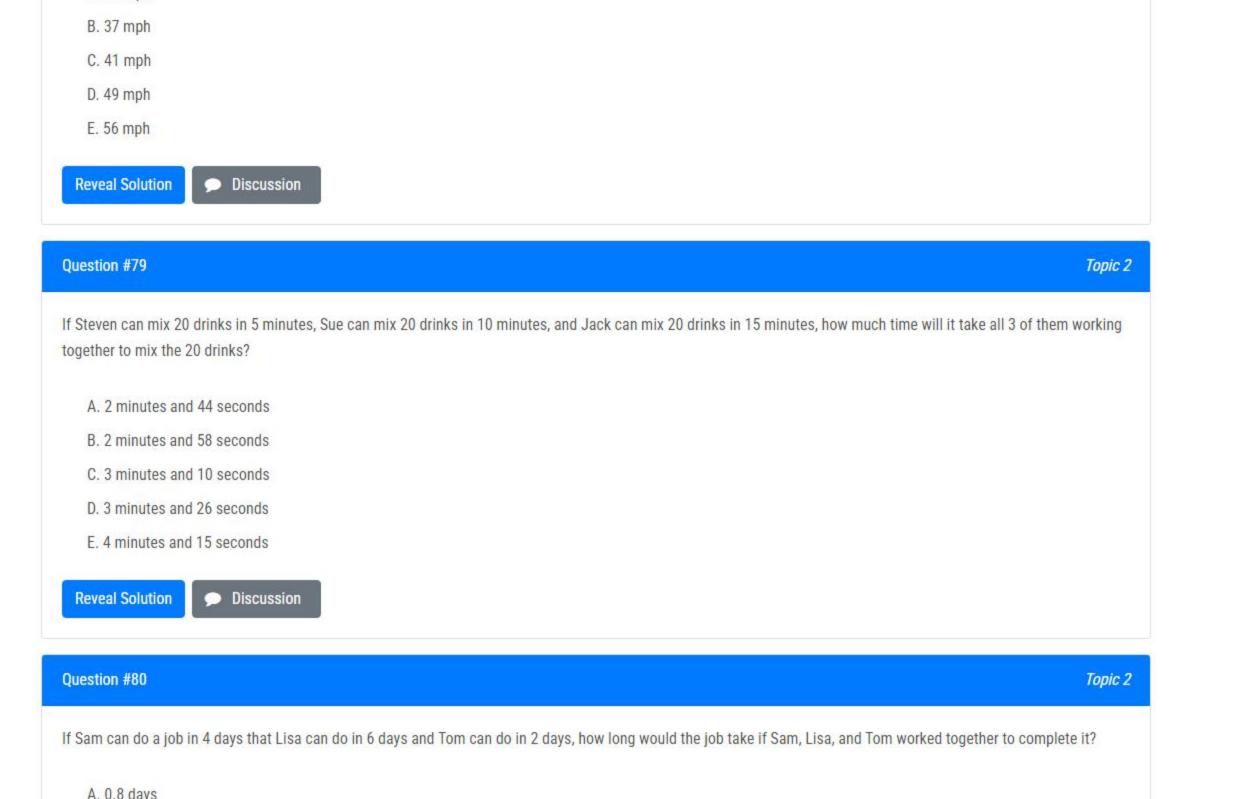
What simple interest rate will Susan need to secure to make \$2,500 in interest on a \$10,000 principal over 5 years?





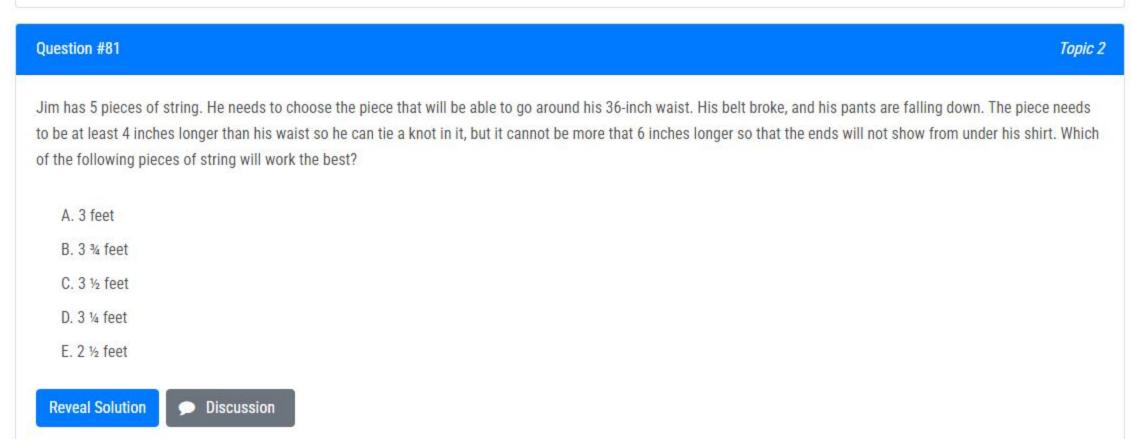
Question #78 Topic 2

John is traveling to a meeting that is 28 miles away. He needs to be there in 30 minutes. How fast does he need to go to make it to the meeting on time?



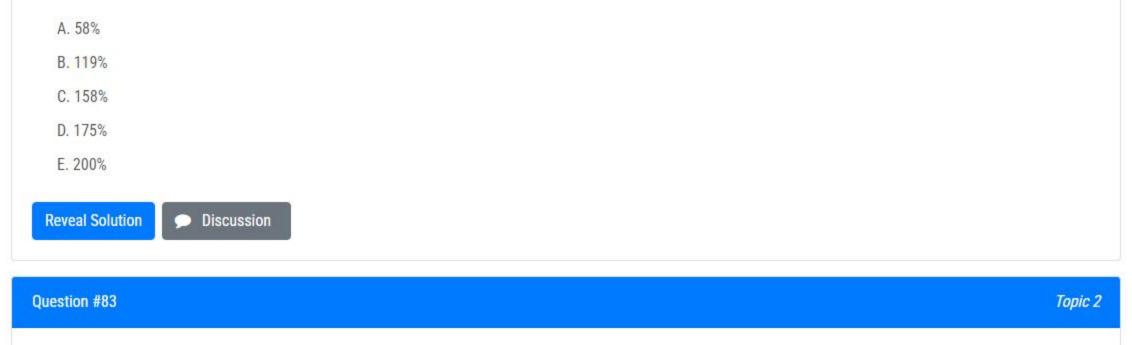
A. 25 mph

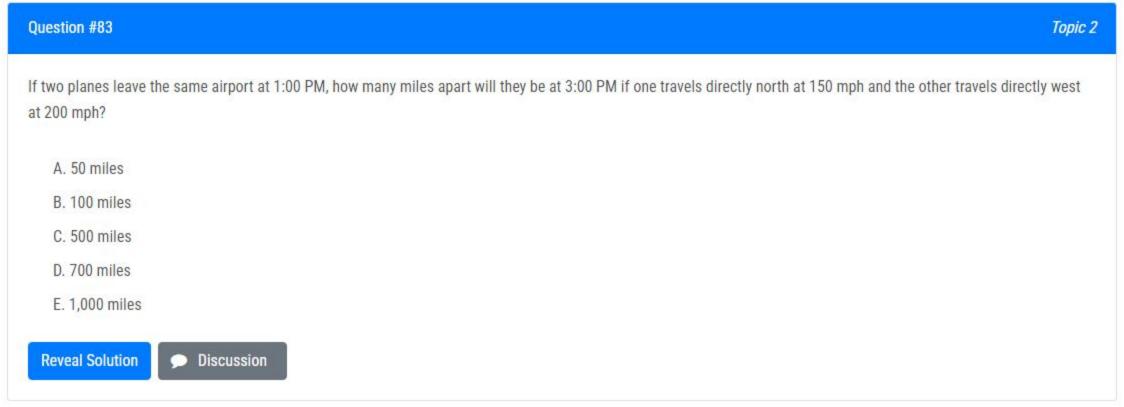




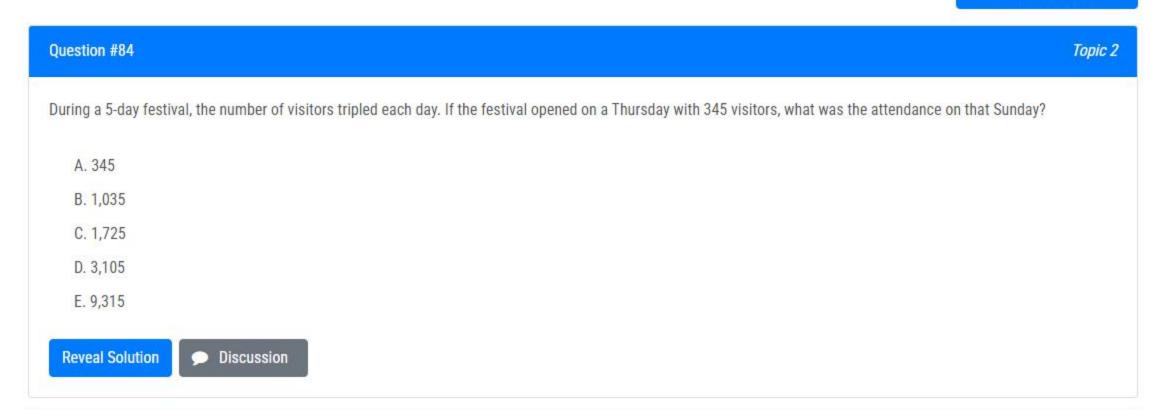
Question #82 Topic 2

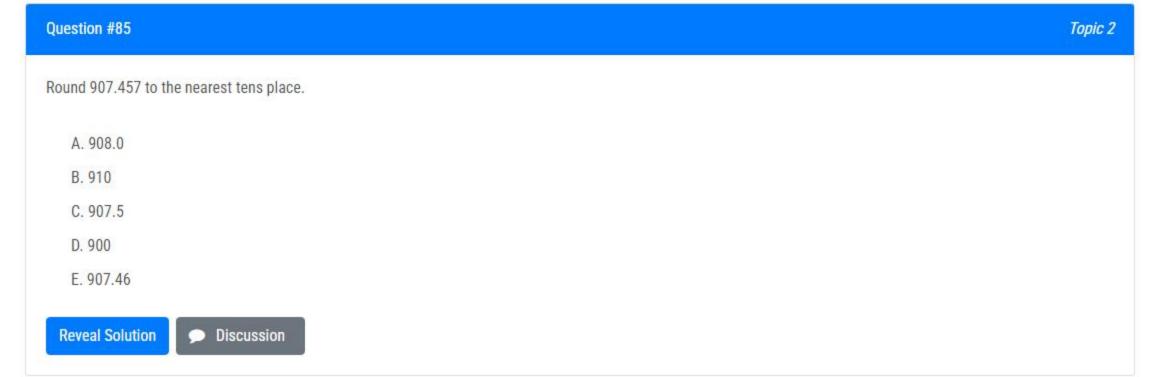
The last week of a month a car dealership sold 12 cars. A new sales promotion came out the first week of the next month and the sold 19 cars that week. What was the percent increase in sales from the last week of the previous month compared to the first week of the next month?

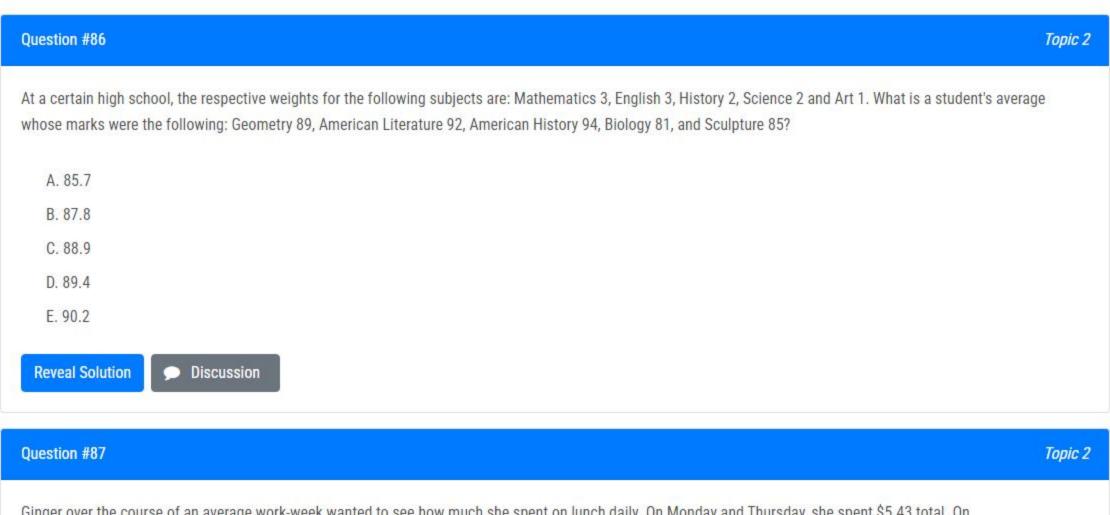












Ginger over the course of an average work-week wanted to see how much she spent on lunch daily. On Monday and Thursday, she spent \$5.43 total. On Tuesday and Wednesday, she spent \$3.54 on each day. On Friday, she spent \$7.89 on lunch. What was her average daily cost?

- A. \$3.19
- B. \$3.75
- C. \$3.90
- D. \$4.08
- E. \$4.23

Reveal Solution

ion Discussion

Question #88 Topic 2 What is 1230.932567 rounded to the nearest hundredths place? A. 1200 B. 1230.9326 C. 1230.93 D. 1230 E. 1230.933 Reveal Solution Discussion Topic 2 Question #89 Subtract the following numbers rounded to the nearest tenths place. 134.679 -45.548 -67.8807

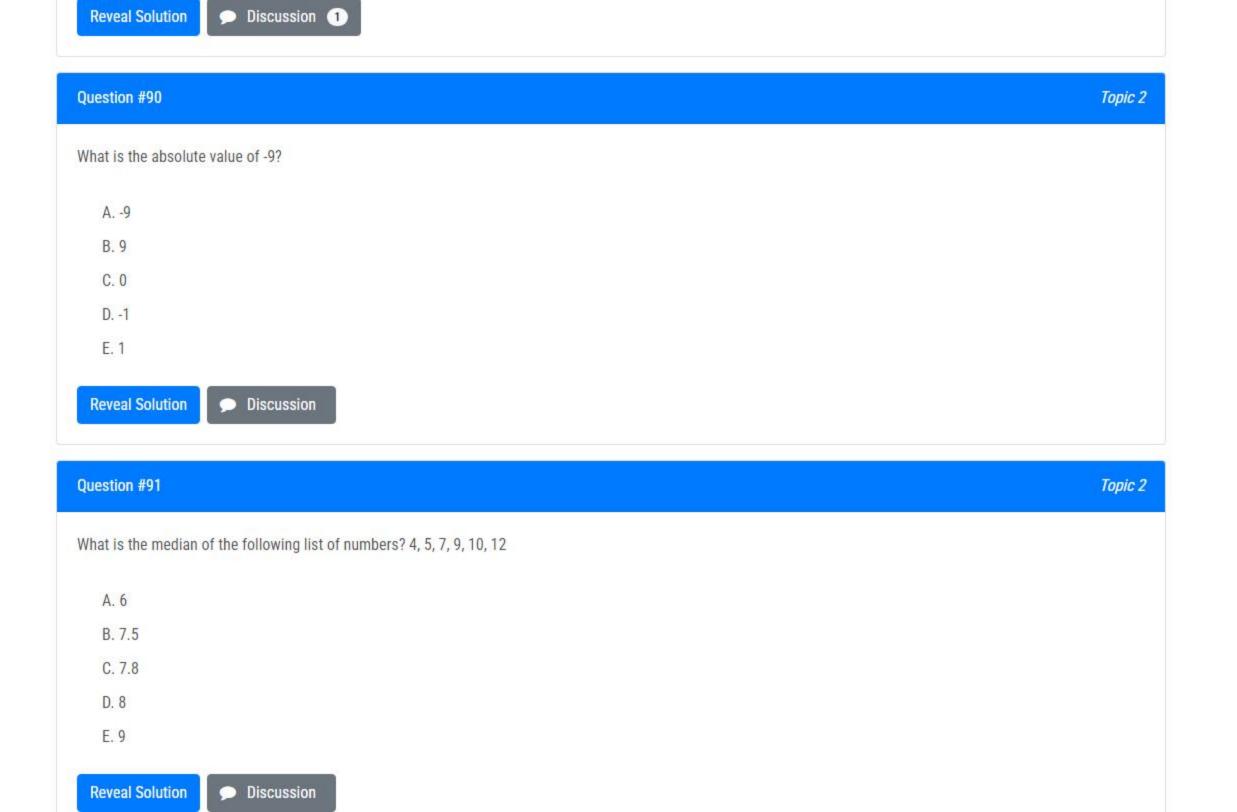
A. 21.3

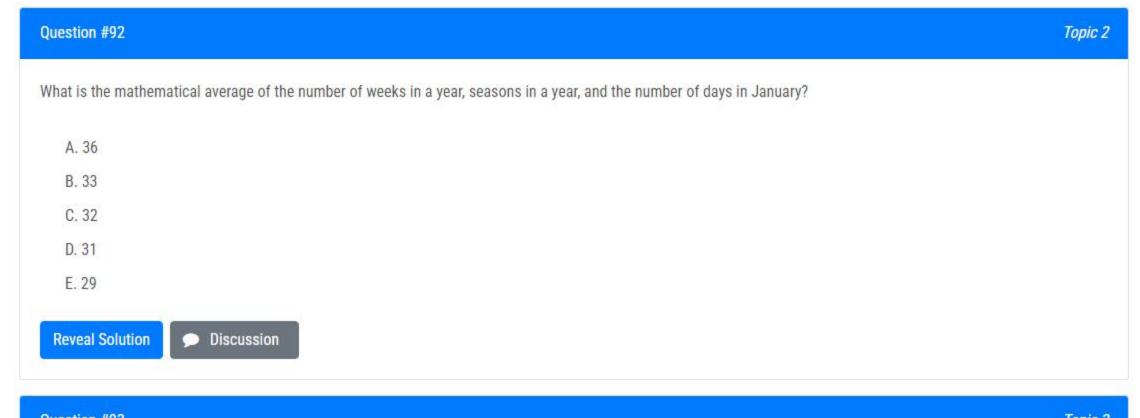
B. 21.25

C. -58.97

D. -59.0

E. 1 A



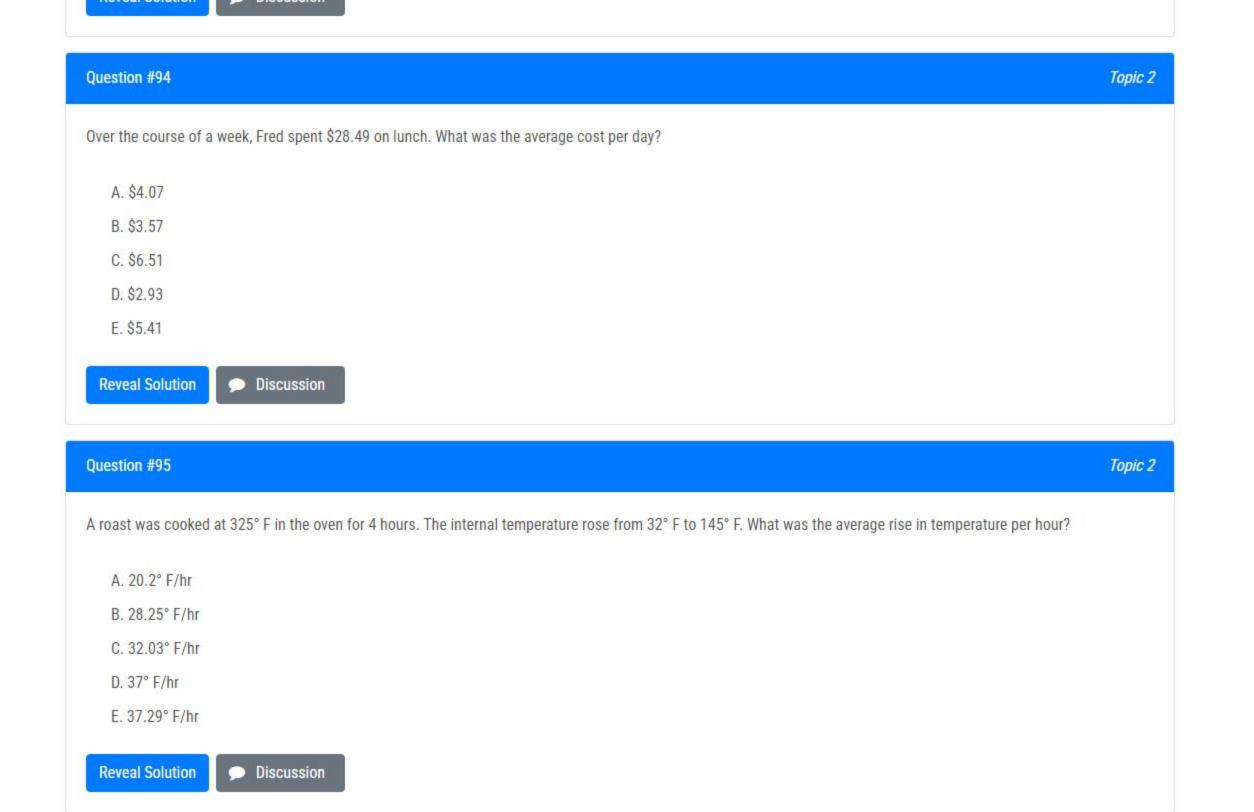


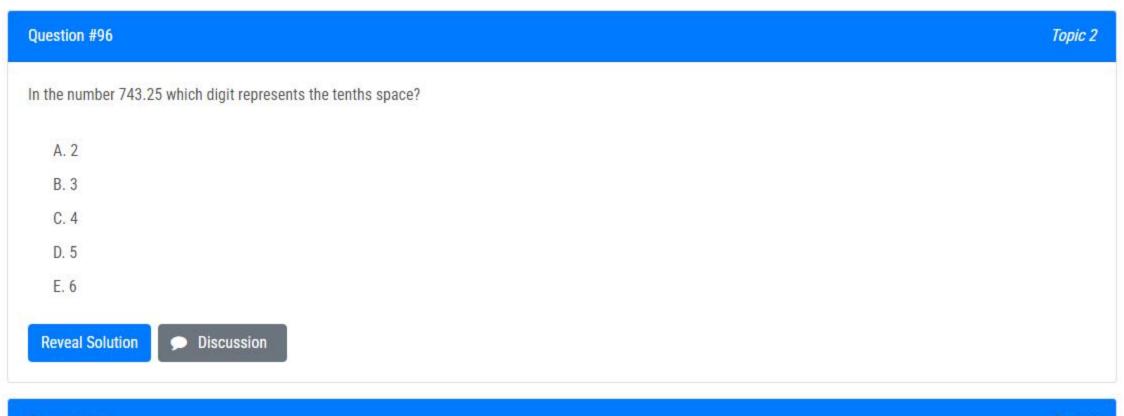
Question #93 Topic 2

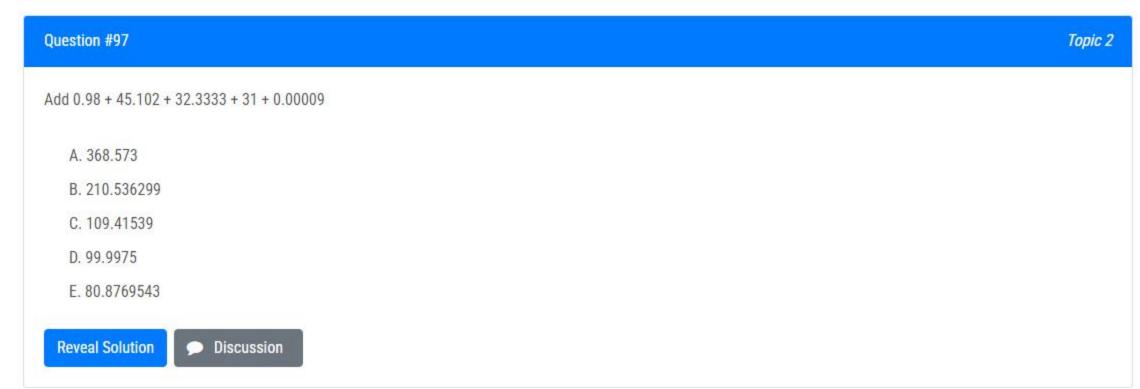
In a college, some courses contribute more towards an overall GPA than other courses. For example, a science class is worth 4 points; mathematics is worth 3 points; history is worth 2 points; and English is worth 3 points. The values of the grade letters are as follows, A= 4, B=3, C=2, D=1, F=0. What is the GPA of a student who made a "C" in Trigonometry, a "B" in American History, an "A" in Botany, and a "B" in Microbiology?

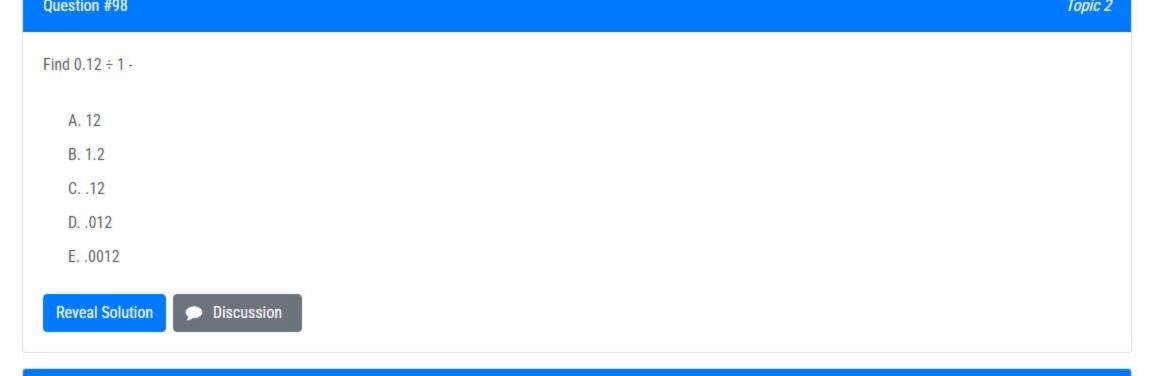
- A. 2.59
- B. 2.86
- C. 3.08
- D. 3.33
- E. 3.67

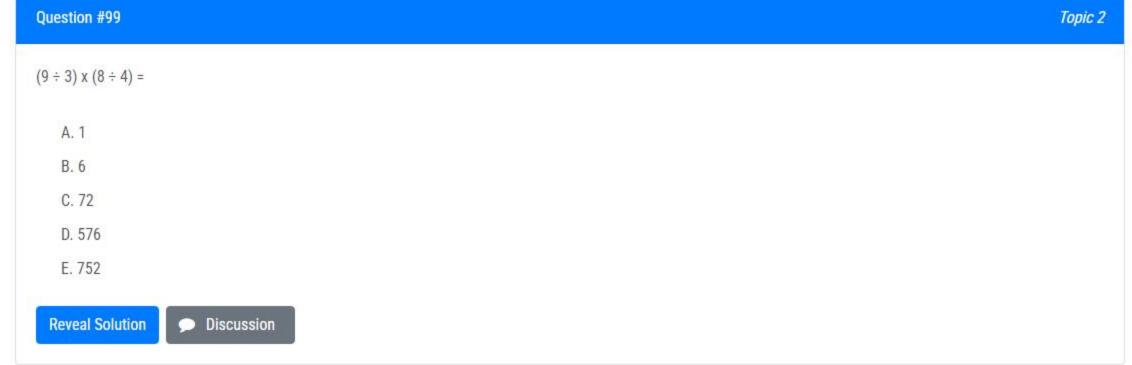
Reveal Solution Discussion





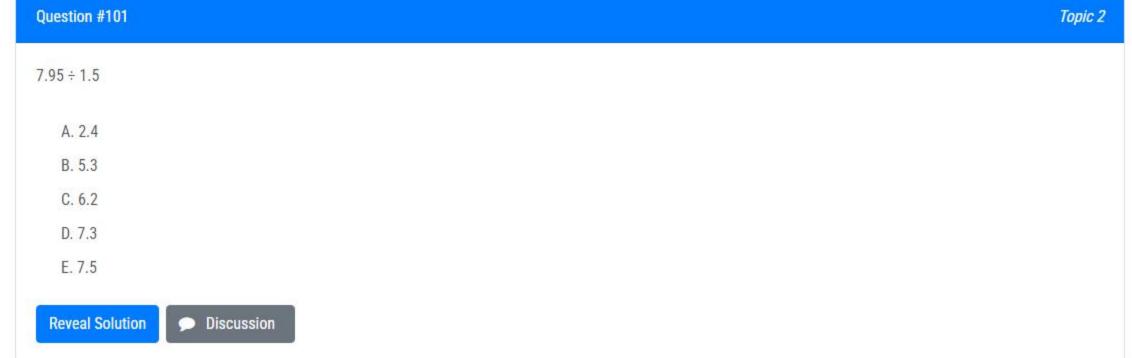






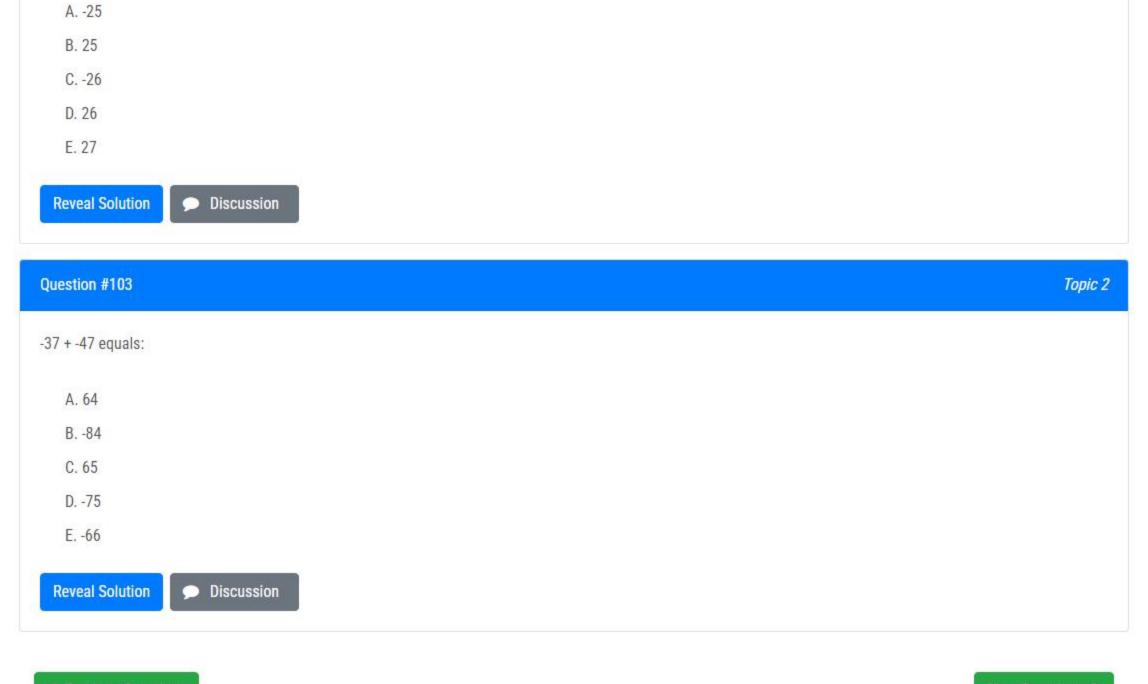
Question #100





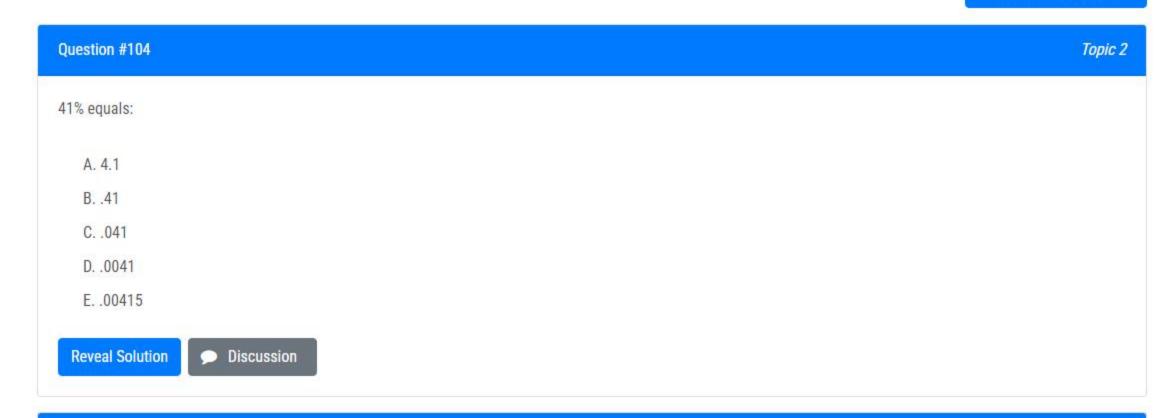
Question #102 Topic 2

-32 + 7 equals:

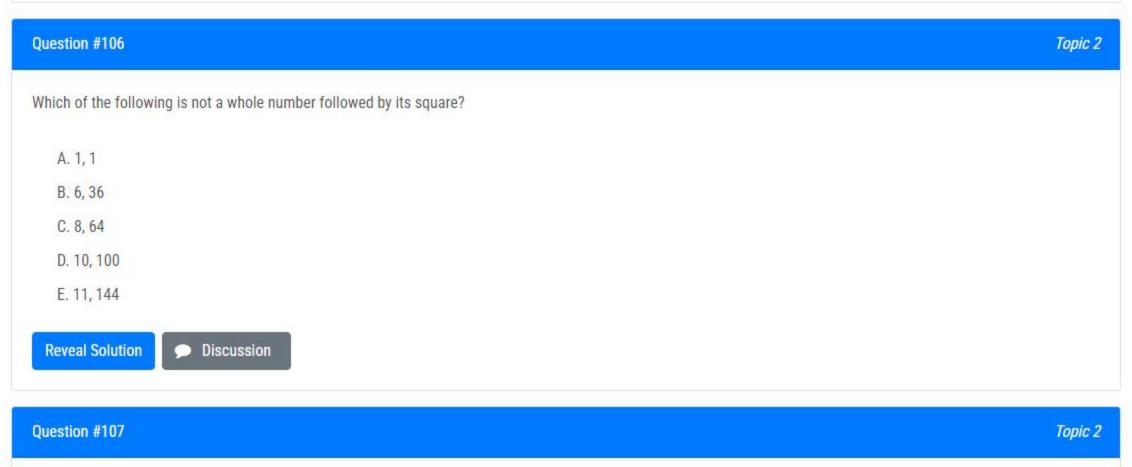


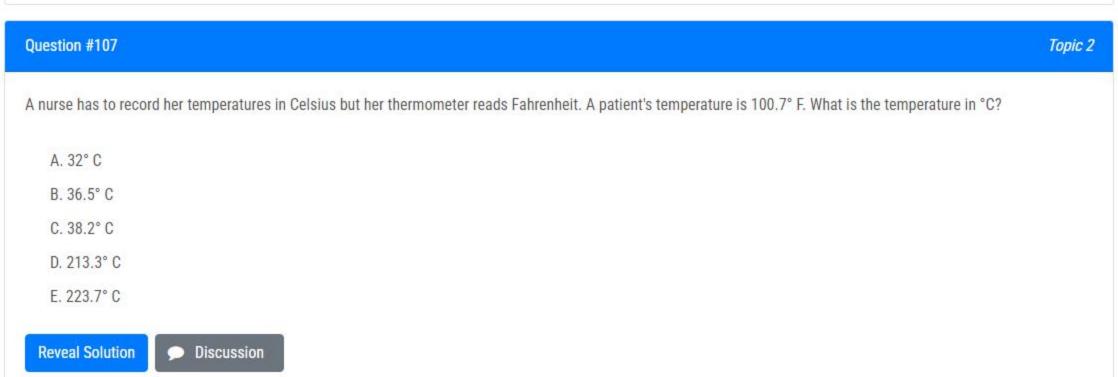
♣ Previous Questions

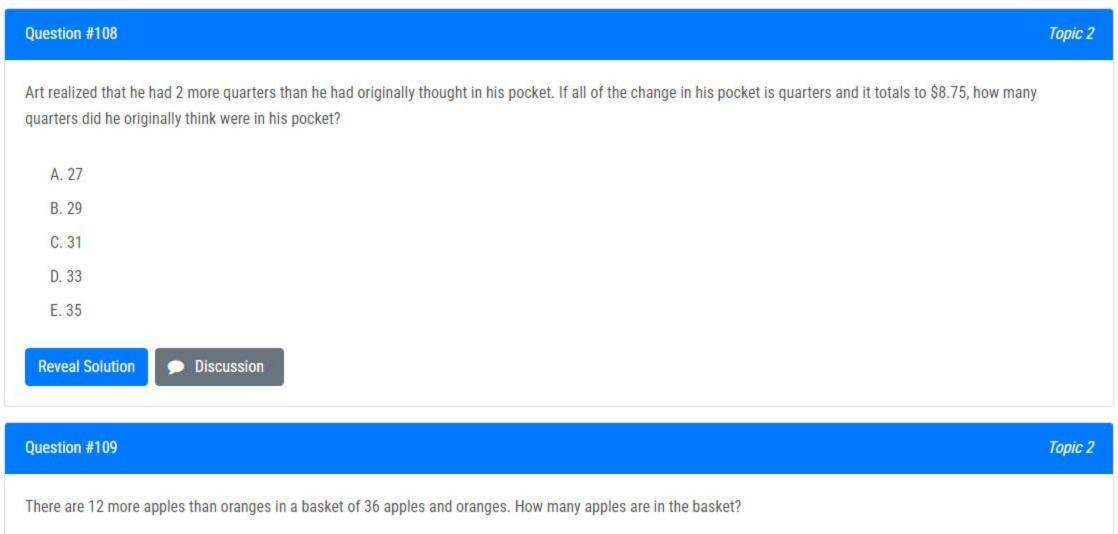
Next Questions →

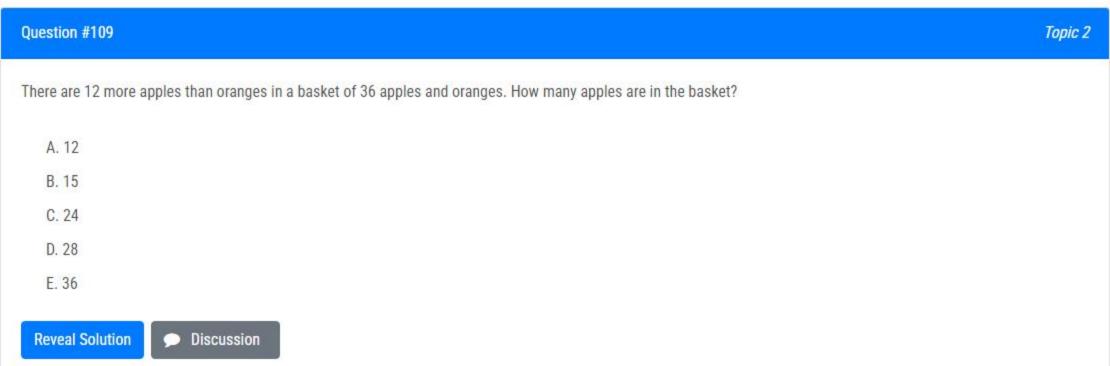


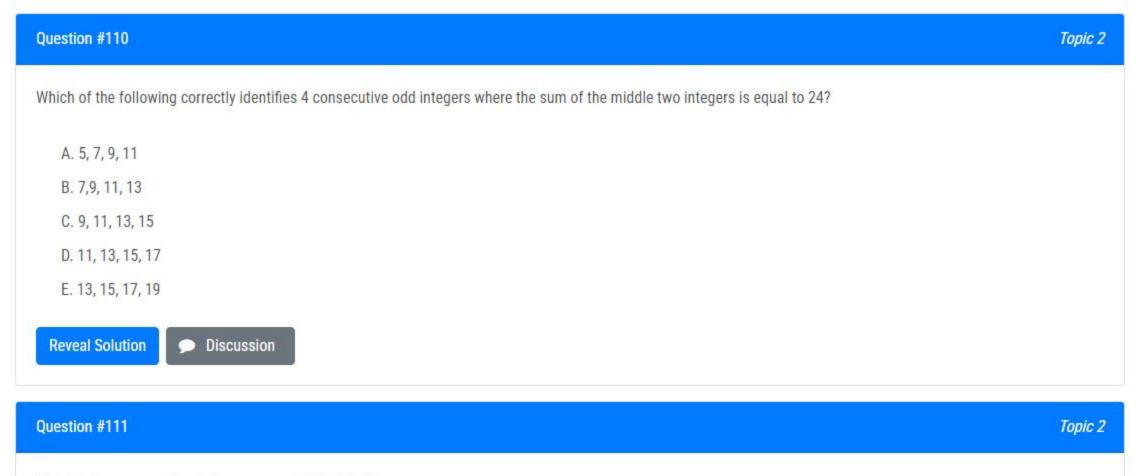


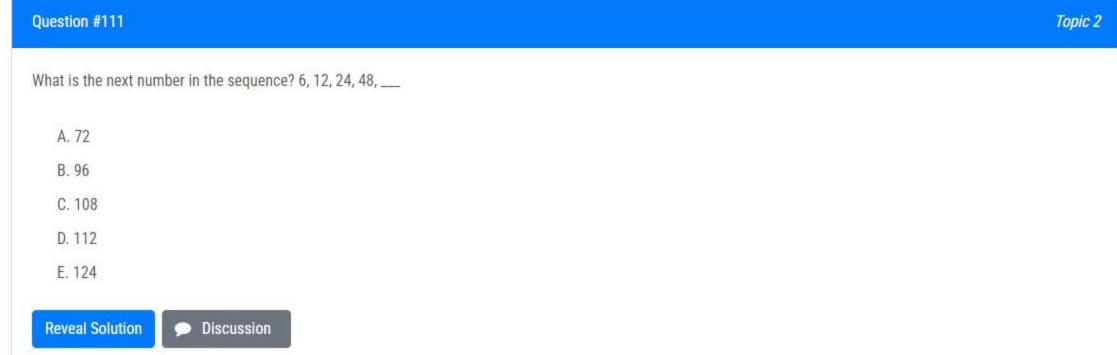


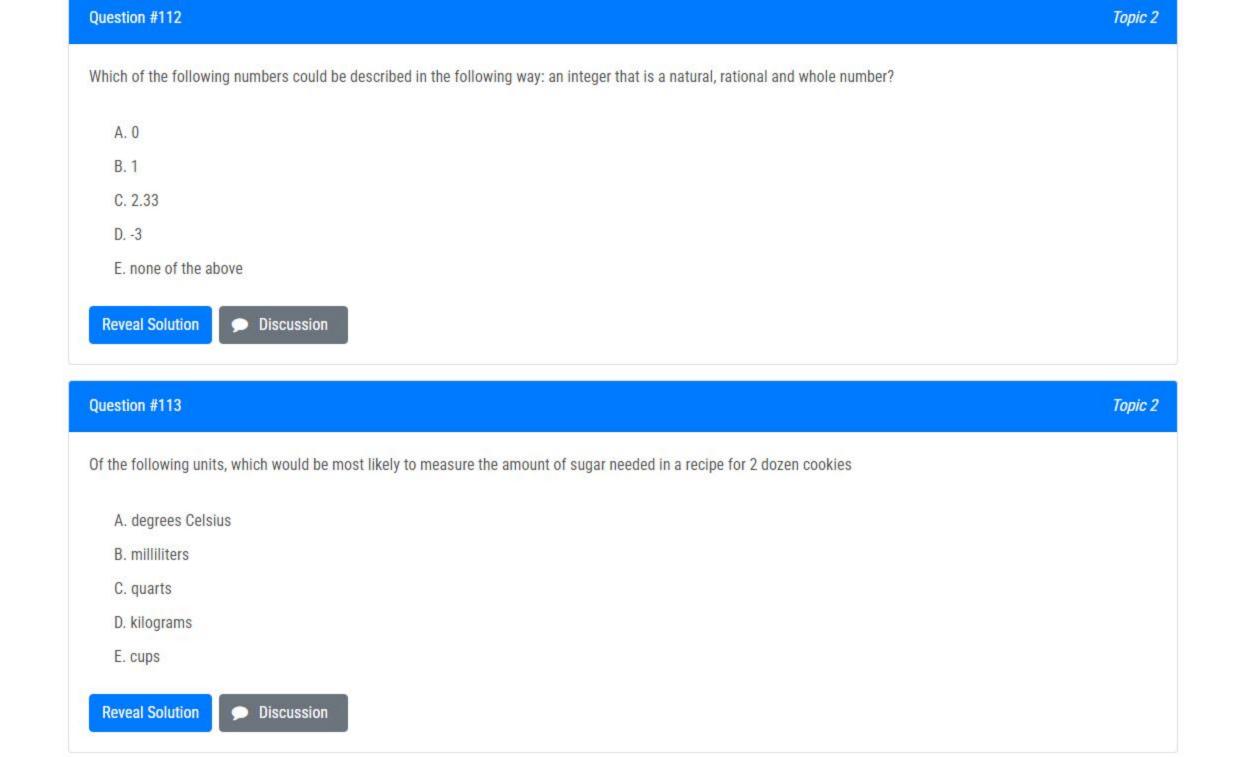




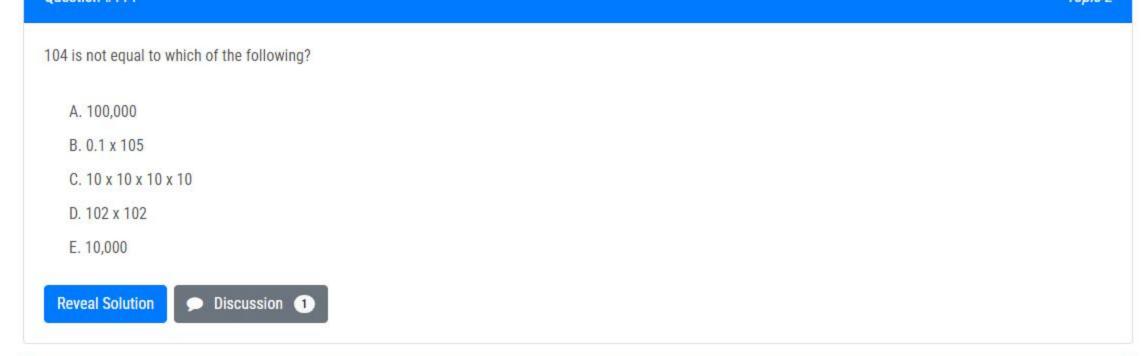


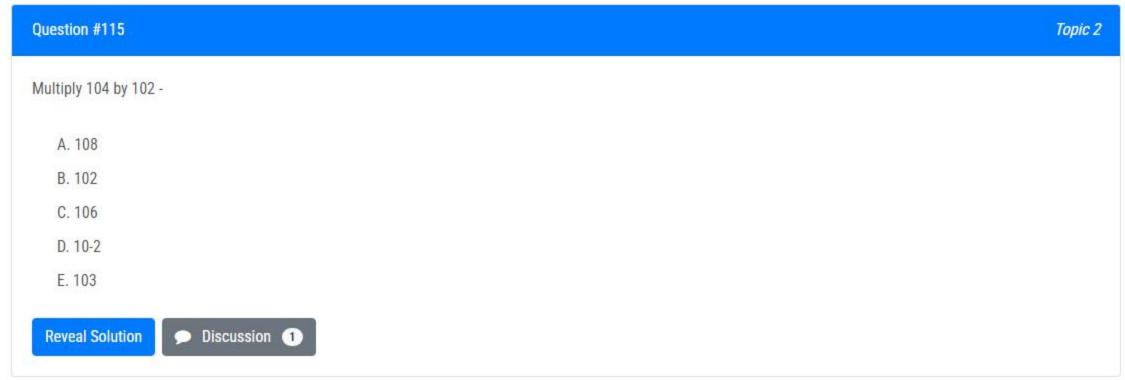




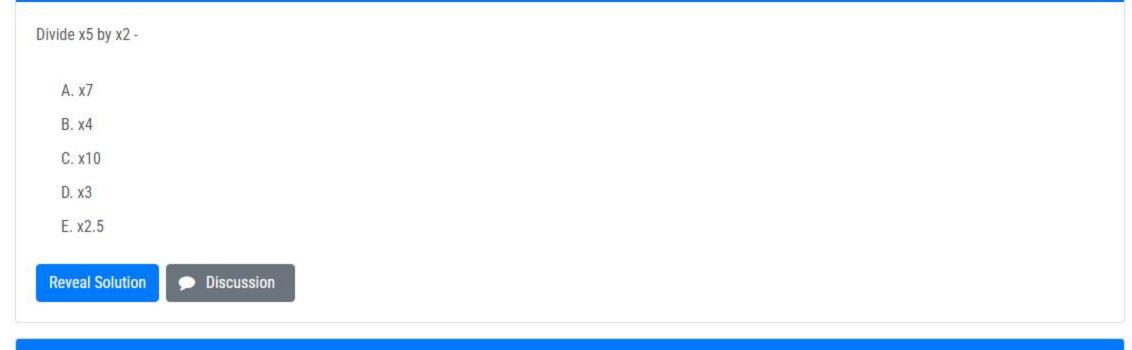


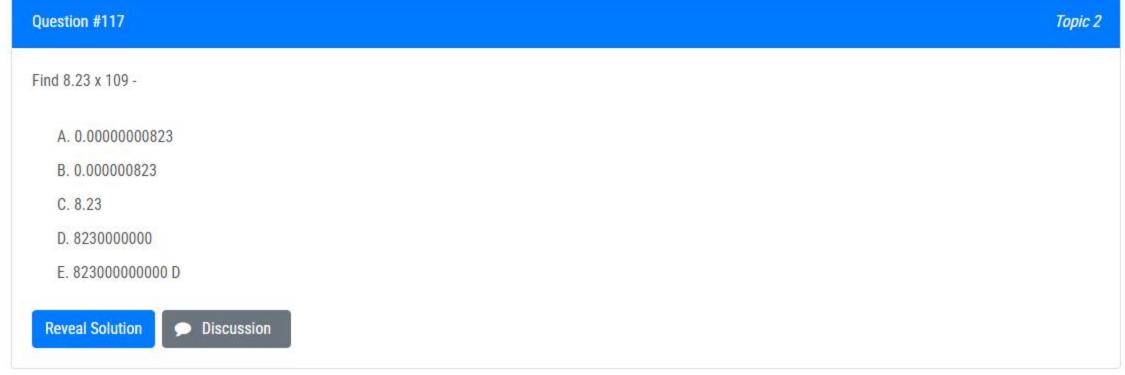
Question #114 Tonic 2





Question #116 Topic 2





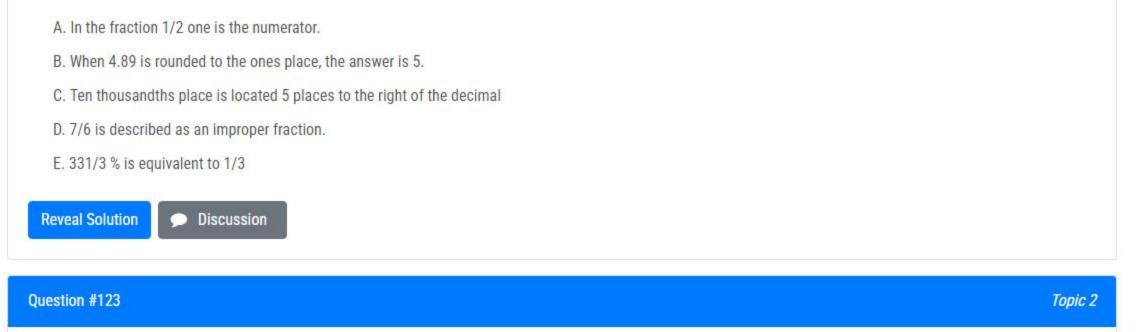
Question #118

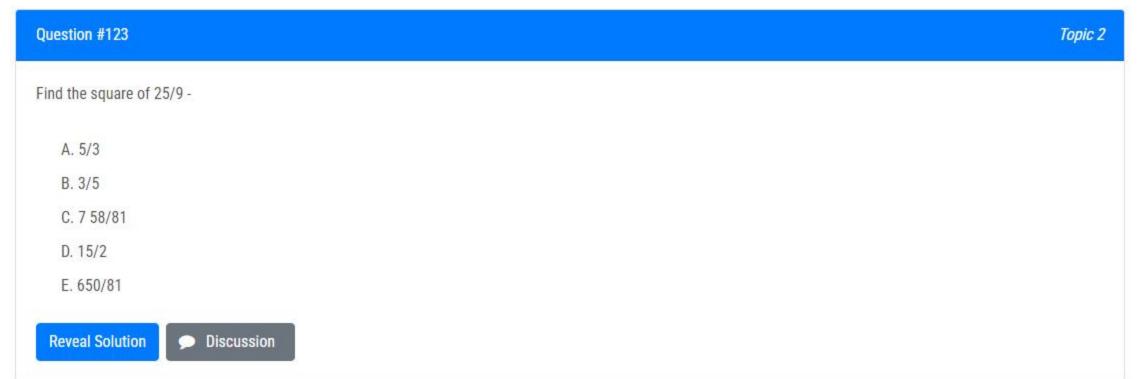
Topic 2



Which of the following is not a fraction equivalent to 3/4?









Question #124

Topic 2

Sarah needs to make a cake and some cookies. The cake requires 3/8 cup of sugar and the cookies require 3/5 cup of sugar. Sarah has 15/16 cups of sugar. Does she have enough sugar, or how much more does she need?

- A. She has enough sugar.
- B. She needs 1/8 of a cup of sugar.
- C. She needs 3/80 of a cup of sugar.
- D. She needs 4/19 of a cup of sugar.
- E. She needs 1/9 of a cup of sugar.

Reveal Solution

Discussion

Question #125 Topic 2

There are 8 ounces in a 1/2 pound. How many ounces are in 7 3/4 lbs?

- A. 12 ounces
- B. 86 ounces
- C. 119 ounces
- D. 124 ounces
- E. 138 ounces

Reveal Solution

Discussion

Question #126 Topic 2 If the value of x and y in the following fraction are both tripled, how does the value of the fraction change? $\frac{XZ}{Y}$ A. increases by half B. decreases by half C. Triples D. Doubles E. remains the same Discussion Reveal Solution

Question #127 Topic 2

Which of these numbers is a factor of 21?

- A. 2
- B. 5
- C. 7
- D. 42
- E. 44

Question #128 Topic 2

If the average person drinks 8, (8oz) glasses of water per day, a person who drinks 12.8 oz of water after a morning exercise session has consumed what fraction of the daily average?

- A. 1/3
- B. 1/5
- C. 1/7
- D. 1/9
- E. 1/10

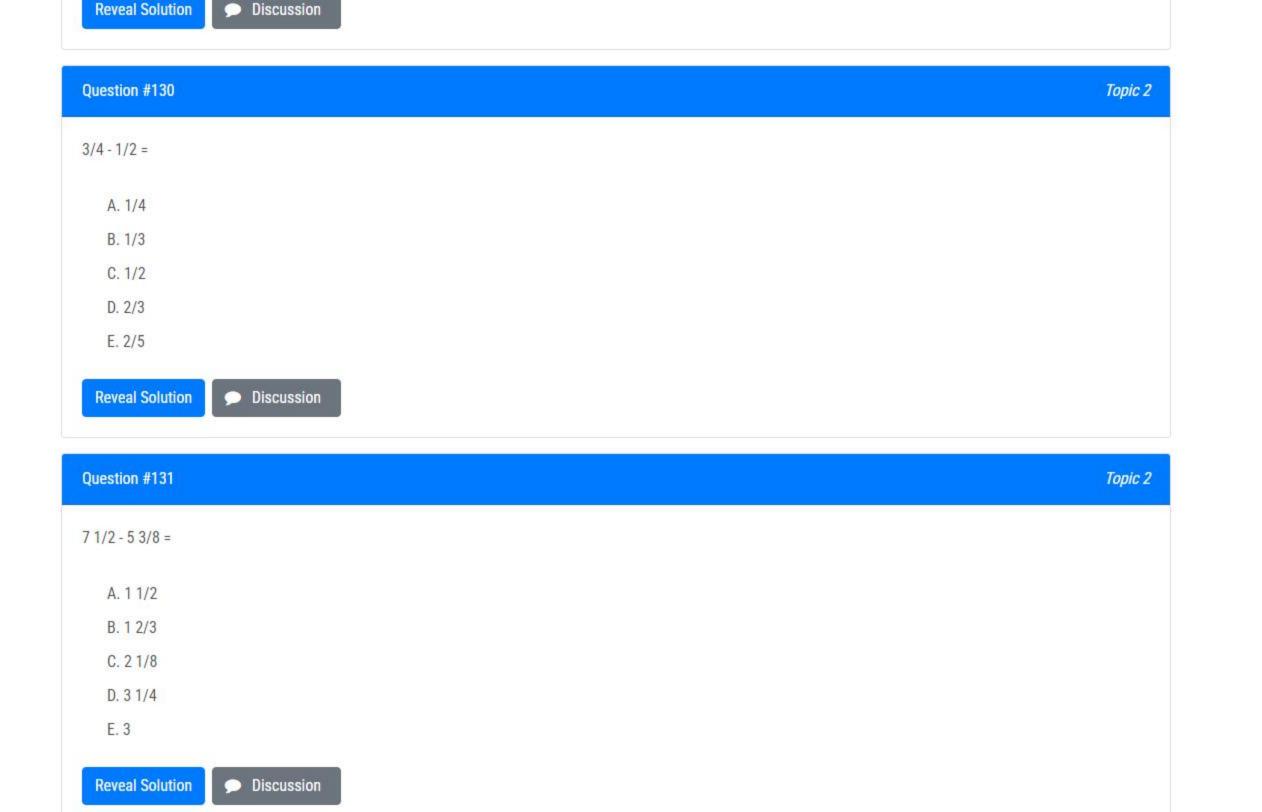
Reveal Solution

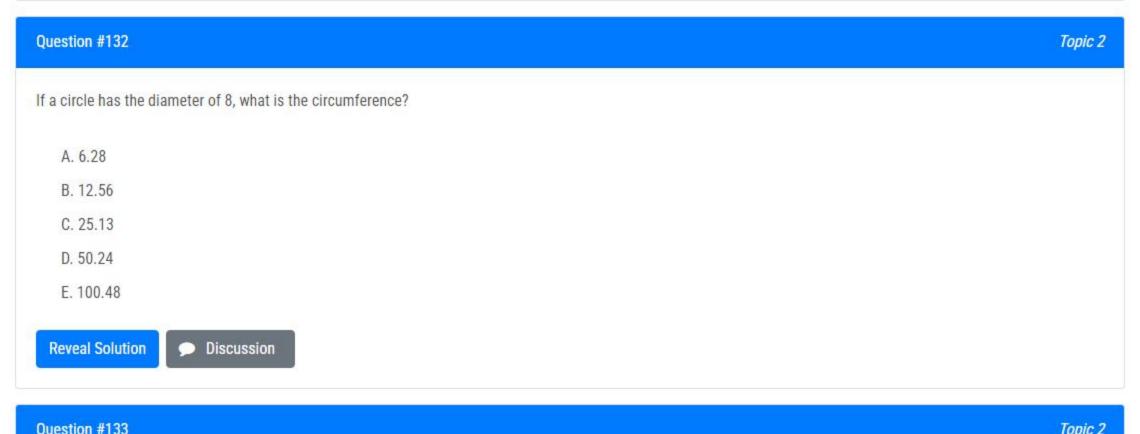
Discussion

Question #129 Topic 2

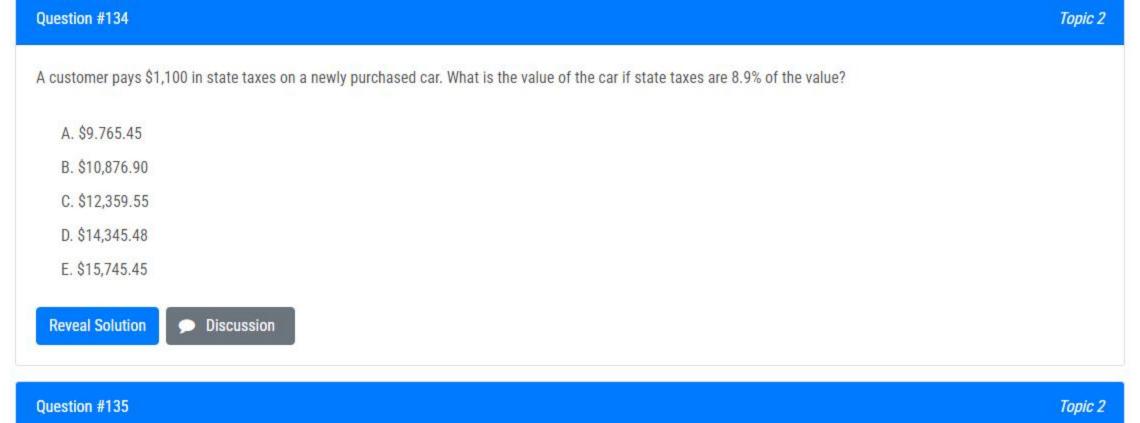
You need 4/5 cups of water for a recipe. You accidentally put 1/3 cups into the mixing bowl with the dry ingredients. How much more water in cups do you need to add?

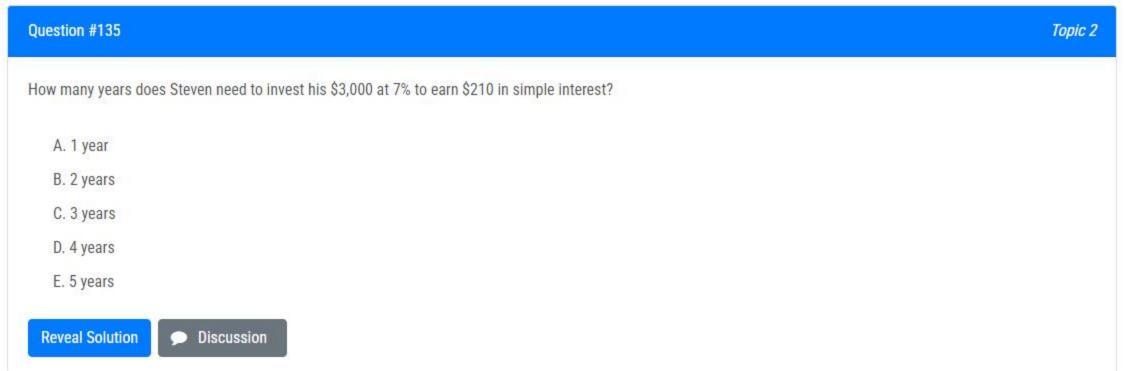
- A. 1/3 cups
- B. 2/3 cups
- C. 1/15 cups
- D. 7/15 cups
- E. 7/16 cups





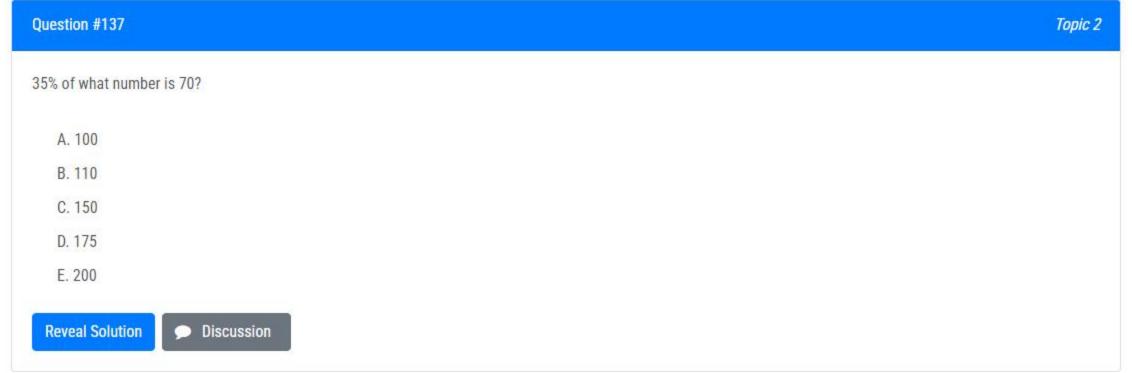




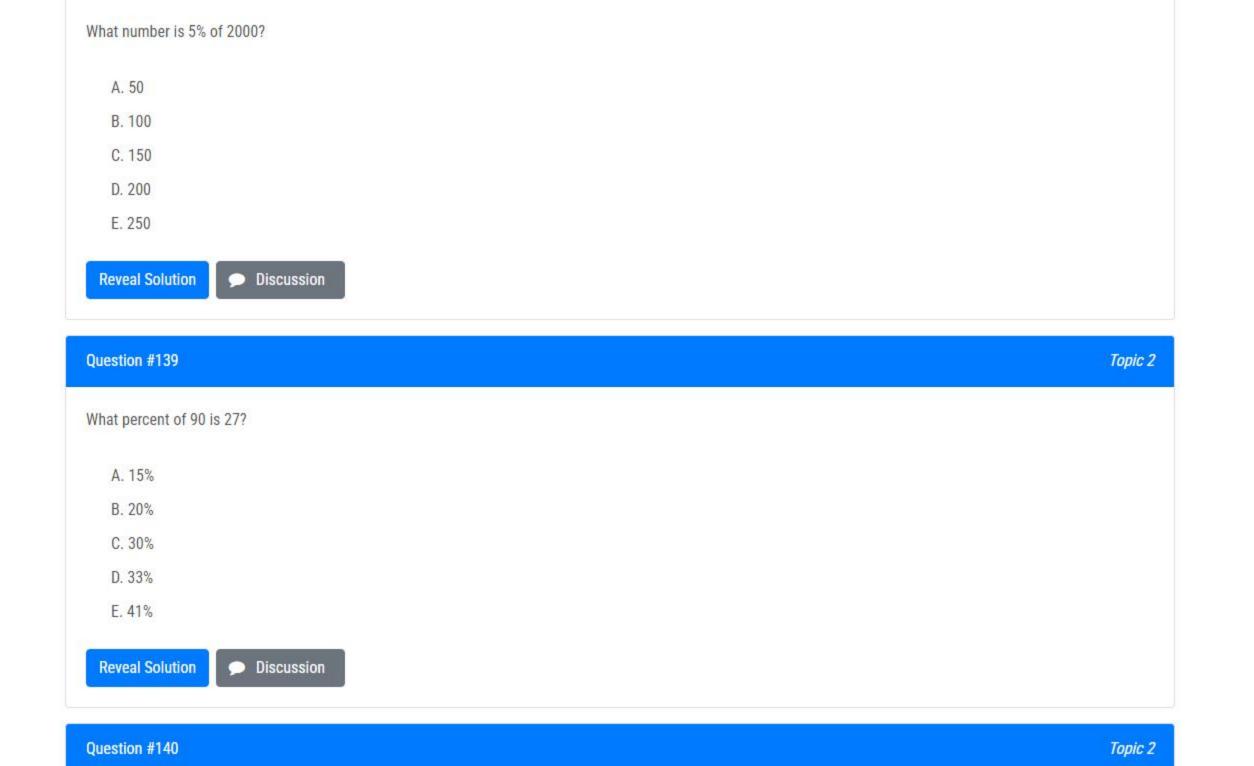


Question #136 Topic 2



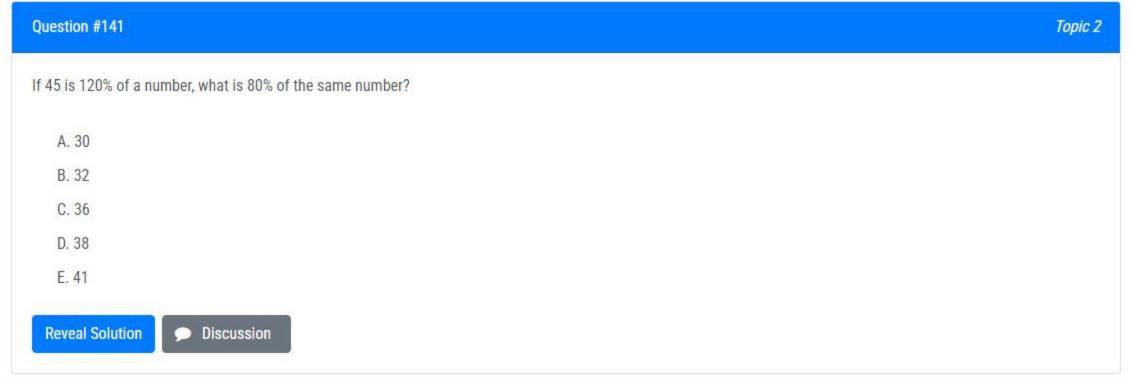


Question #138 Topic 2



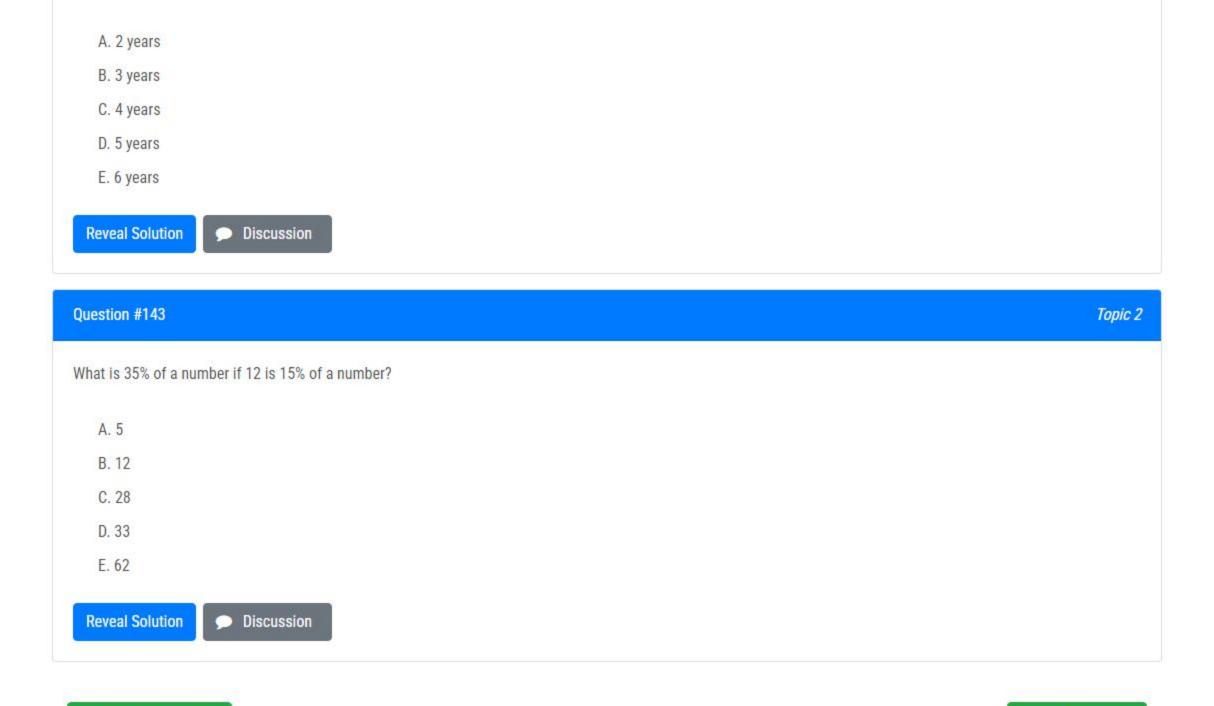
Jim works for \$15.50 per hour for a health care facility. He is supposed to get a 75 cent per hour raise at one year of service. What will his percent increase in hourly pay

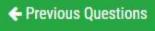


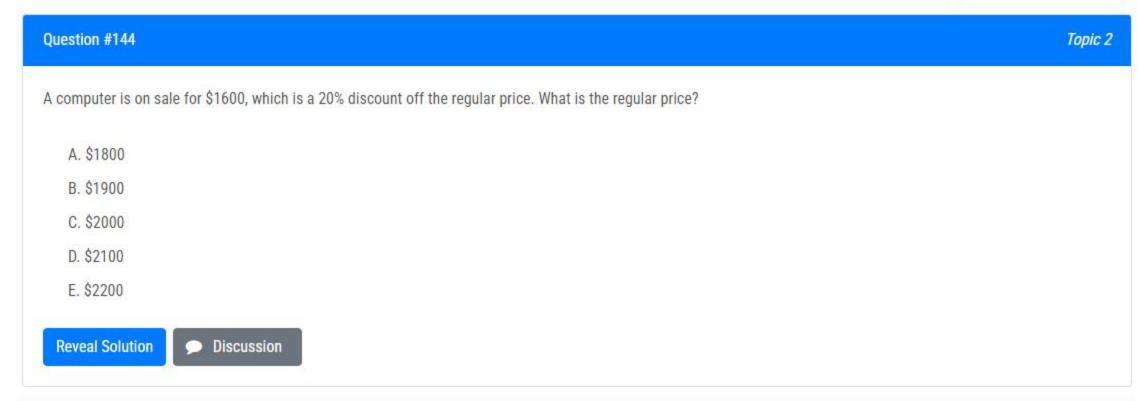


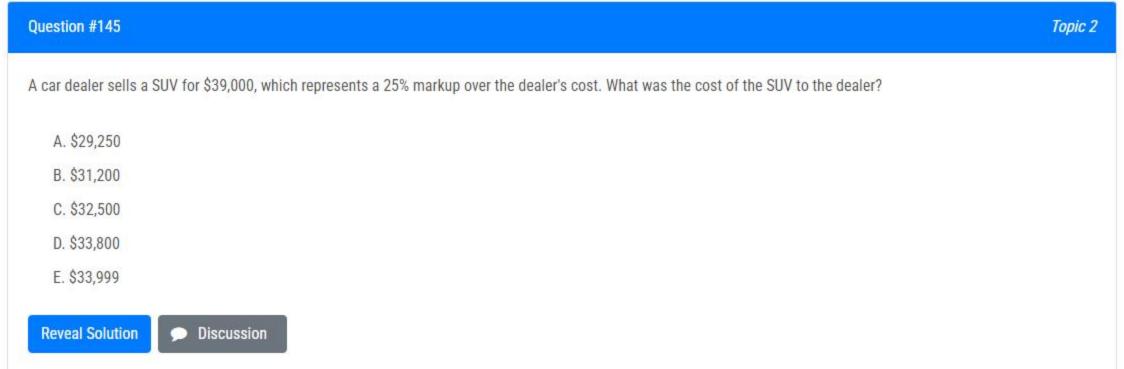
Question #142 Topic 2

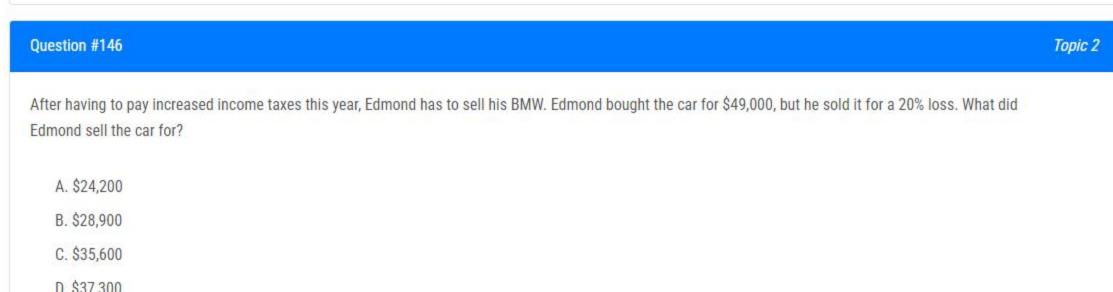
How long will Lucy have to wait before her \$2,500 invested at 6% earns \$600 in simple interest?

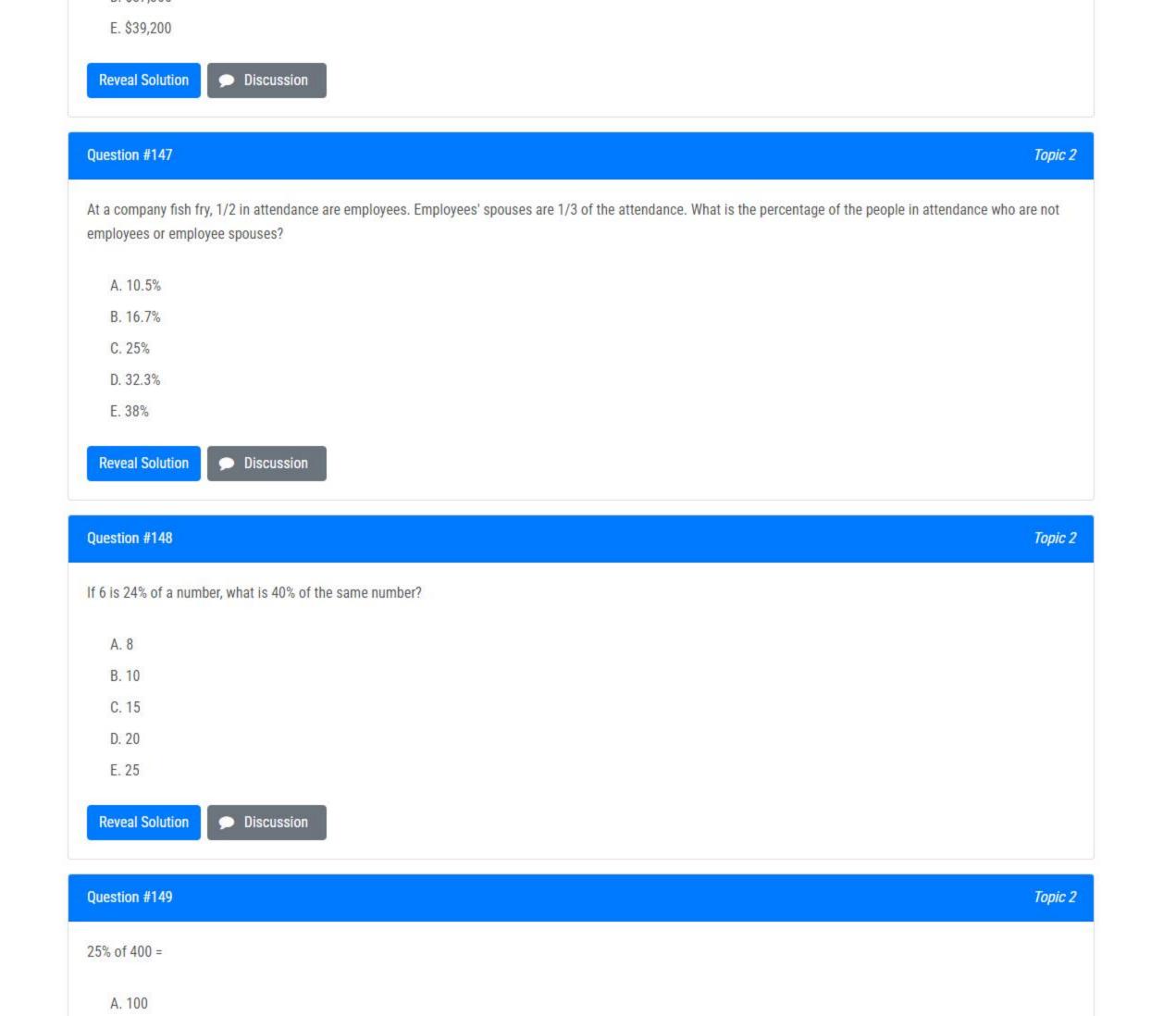


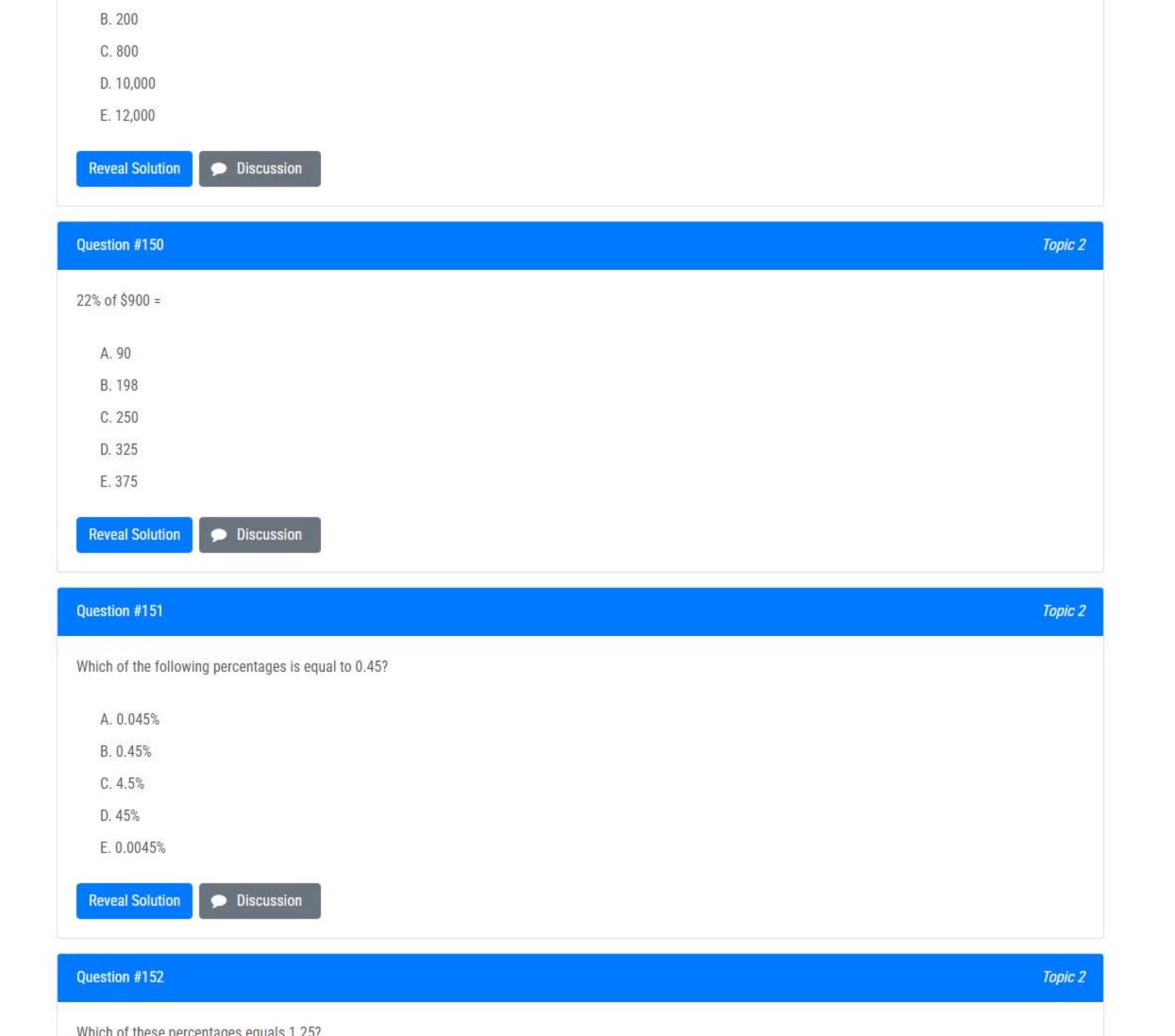


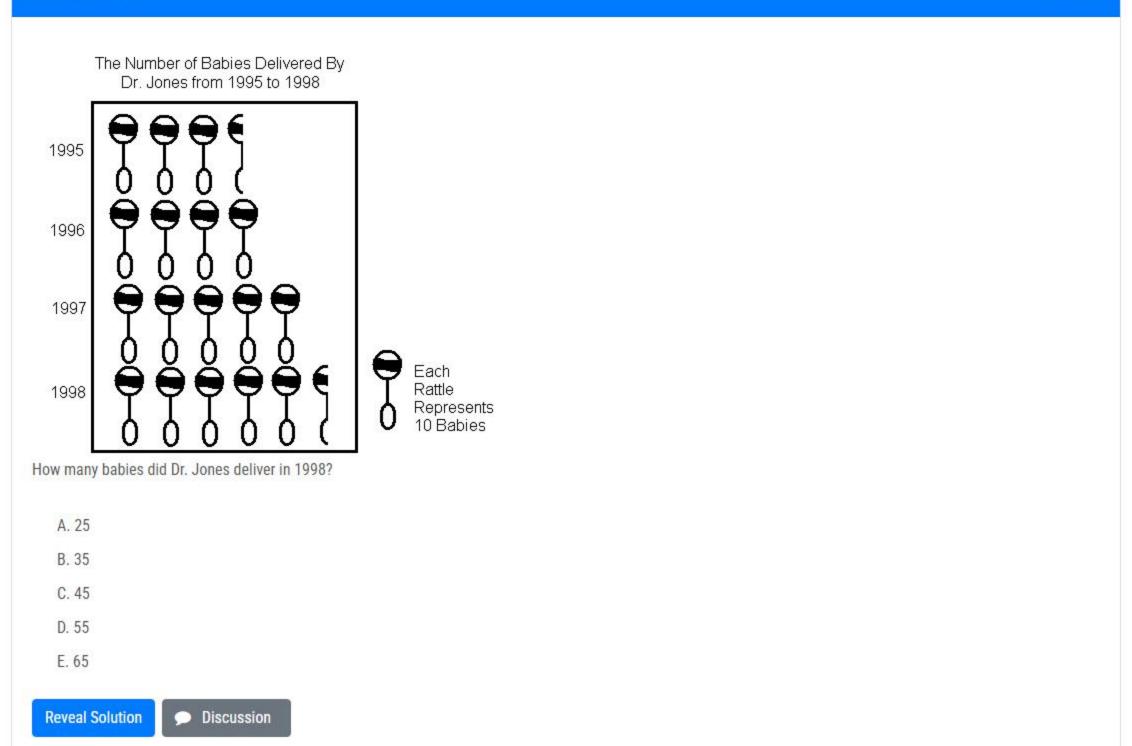












Question #154 Topic 2 The Number of Babies Delivered By Dr. Jones from 1995 to 1998 1995 1996 1997 Each Rattle 1998 Represents 10 Babies If Dr. Jones delivered 85 babies in 1999, how many rattles would represent this number? A. 6 1/2 B. 7 C. 7 1/2 D. 8 E. 8 1/2

Reveal Solution

Discussion

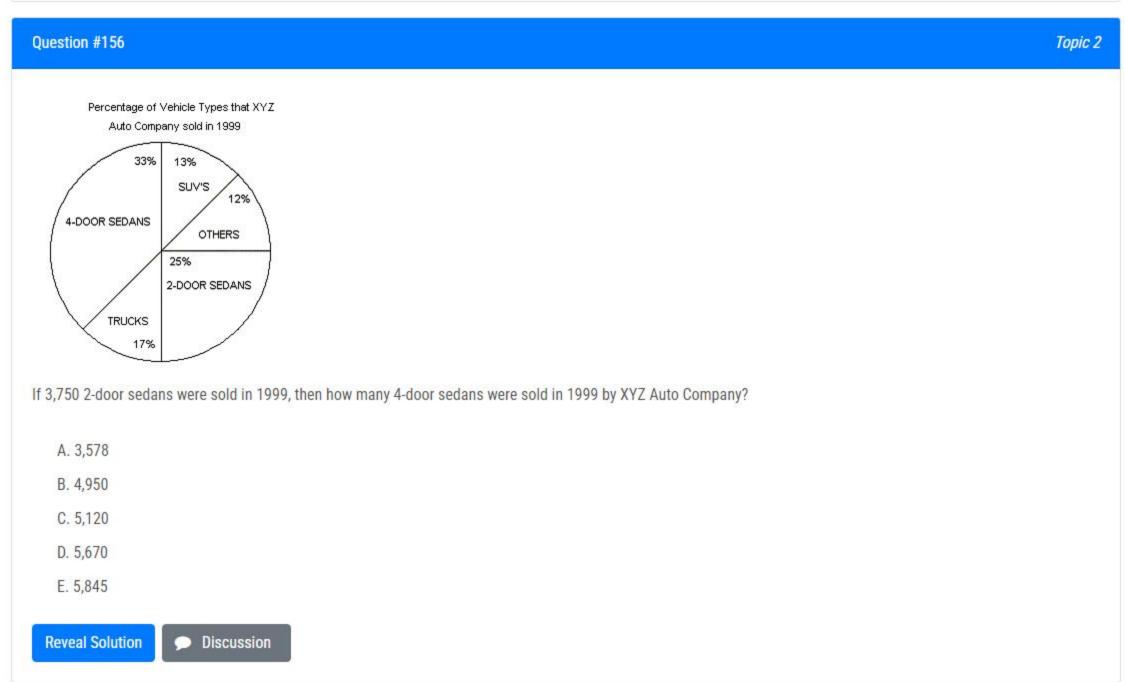
Percentage of Vehicle Types that XYZ
Auto Company sold in 1999

4-DOOR SEDANS

OTHERS

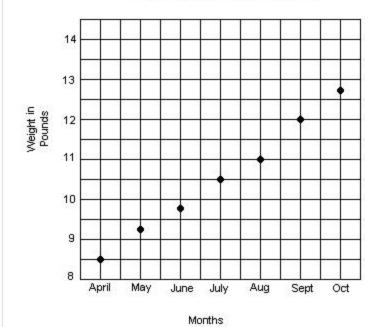
25%
2-DOOR SEDANS





Question #157 Topic 2

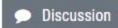
Infant Weight Gain in Pounds Over First Six Months of Life



What was the average weight of the infant from April to October, rounded to the nearest ounce?

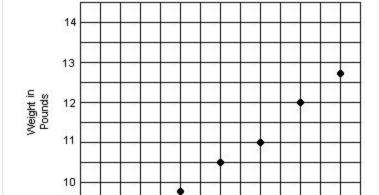
- A. 10 lbs
- B. 10 lbs 5 ounces
- C. 10 lbs 9 ounces
- D. 11lbs 5 ounces
- E. 11 lbs 9 ounces

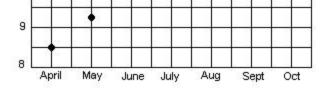
Reveal Solution



Question #158 Topic 2

Infant Weight Gain in Pounds Over First Six Months of Life





Months

Between which two months did the infant gain the most weight?

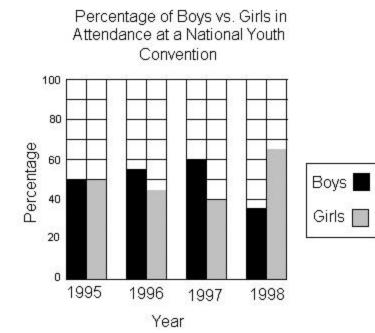
- A. April and May
- B. June and July
- C. July and August
- D. August and September
- E. September and October

Reveal Solution



Question #159

Topic 2



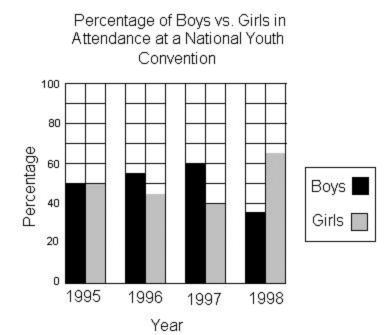
Total Number in Attendance at Nation Youth Convention

Year	Number
1995	716
1996	1108
1997	1520
1998	2244
	•

Which year did the same number of boys and girls attend the conference?

- A. 1995
- B. 1996
- C. 1997
- D. 1998
- E. None





Total Number in Attendance at Nation Youth Convention

Year	Number
1995	716
1996	1108
1997	1520
1998	2244

Which two years did the least number of boys attend the convention?

- A. 1995 and 1996
- B. 1995 and 1998
- C. 1996 and 1997
- D. 1996 and 1992
- E. 1997 and 1998

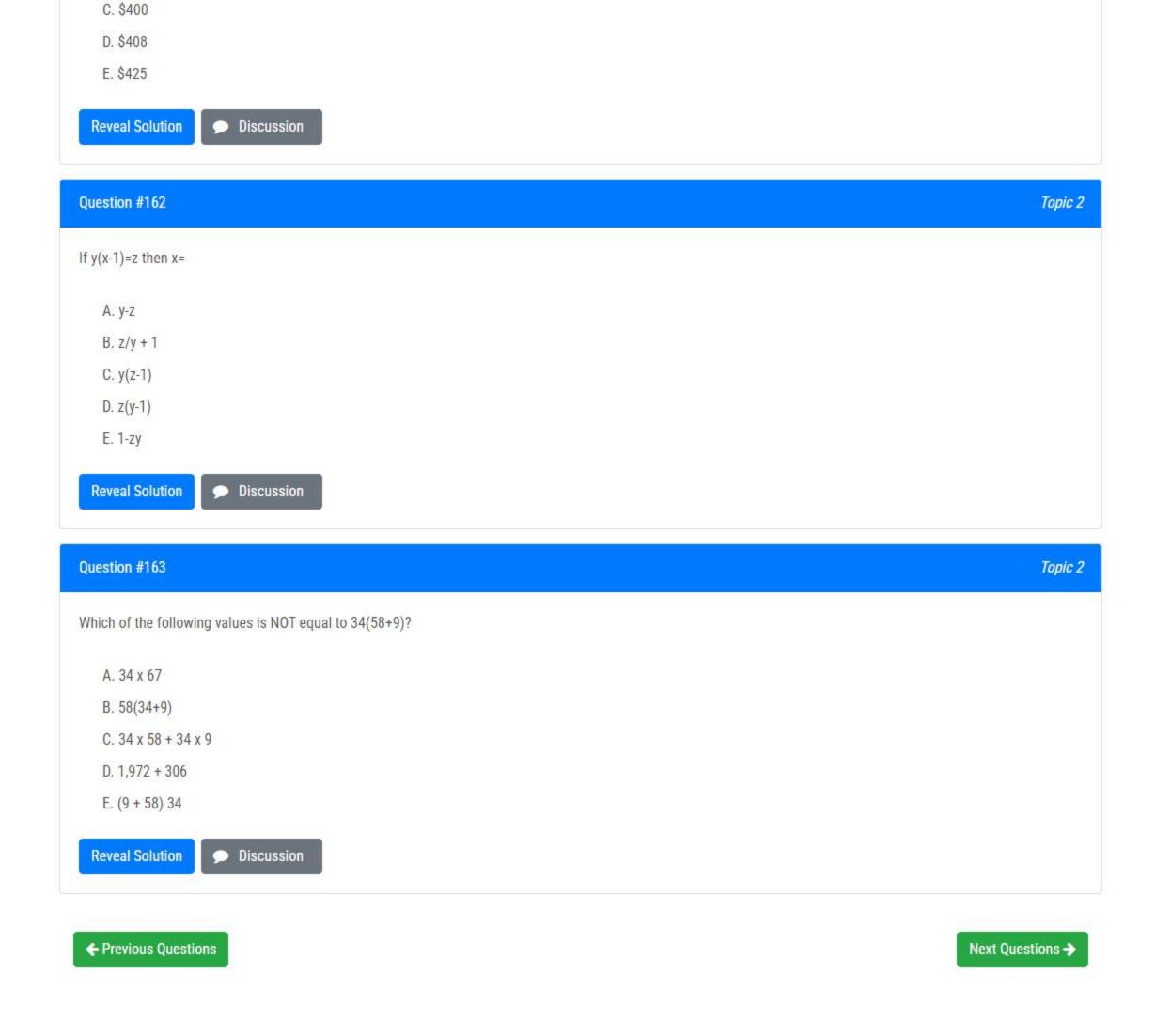
Reveal Solution

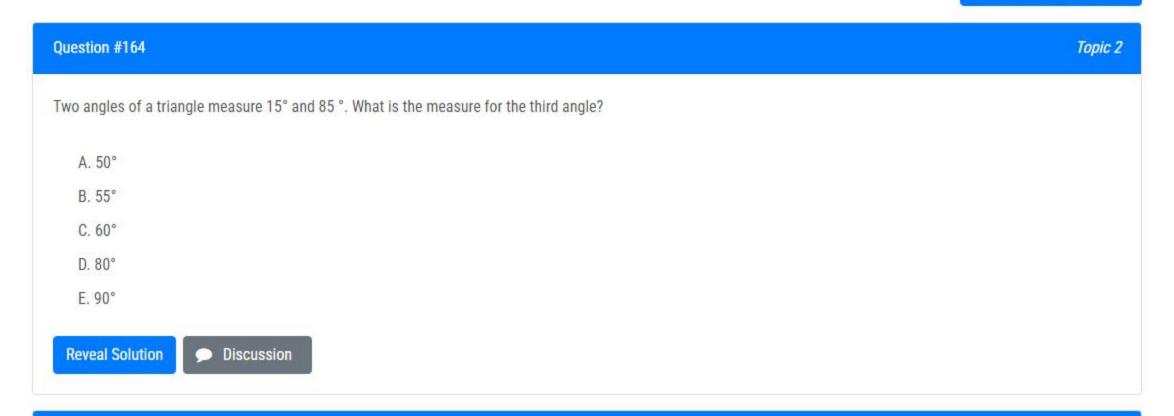
Discussion

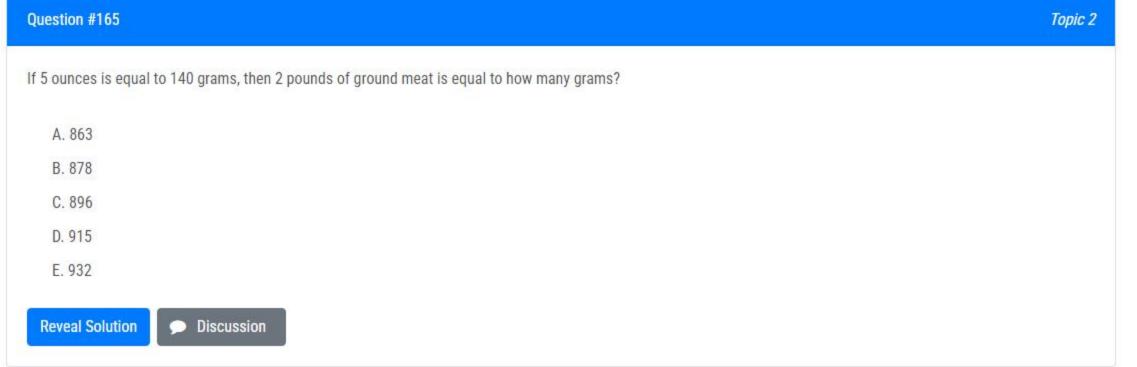
Question #161 Topic 2

An instrument store gives a 10% discount to all students off the original cost of an instrument. During a back to school sale an additional 15% is taken off the discounted price. Julie, a student at the local high school, purchases a flute for \$306. How much did it originally cost?

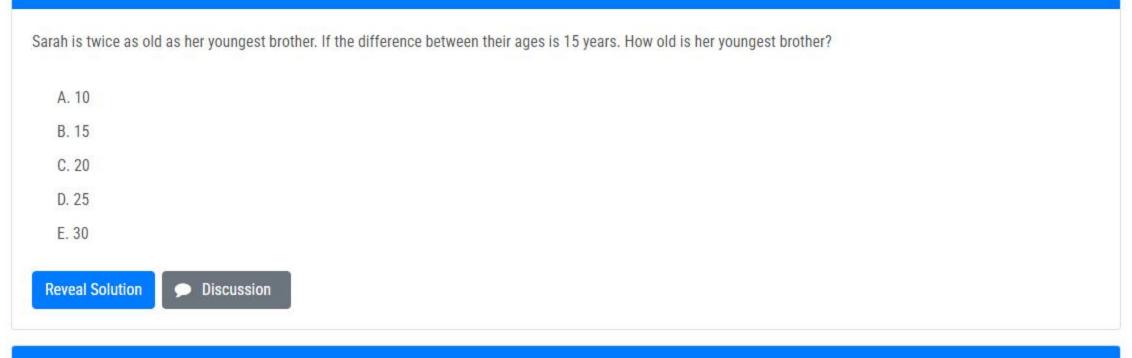
- A. \$325
- B. \$375

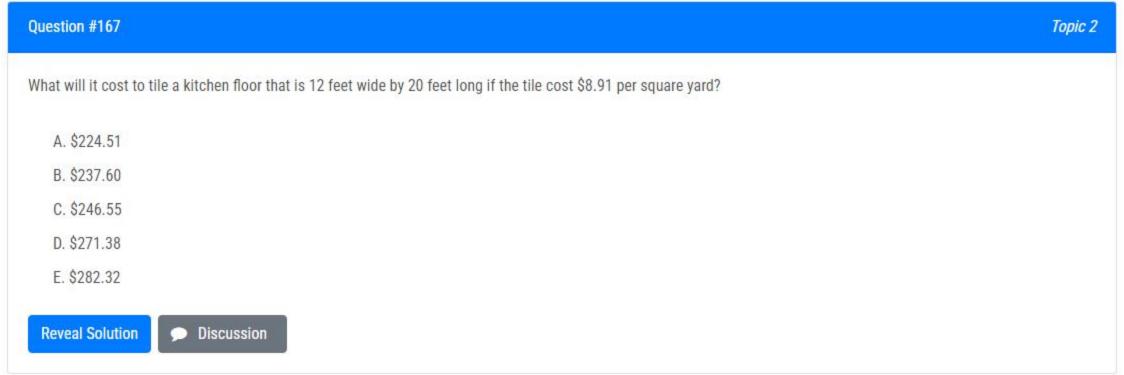




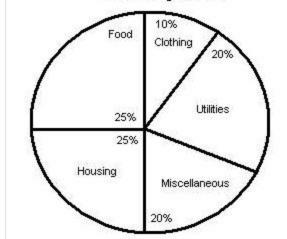


Question #166 Topic 2









January	\$2578
February	\$2432
March	\$2668
April	\$2490
May	\$2622
June	\$2555

What was the average amount of money that Jessica's budget allowed for clothing the first six months of 2001?

- A. \$249.90
- B. \$250.40
- C. \$251.32
- D. \$253.33
- E. \$255.75 E

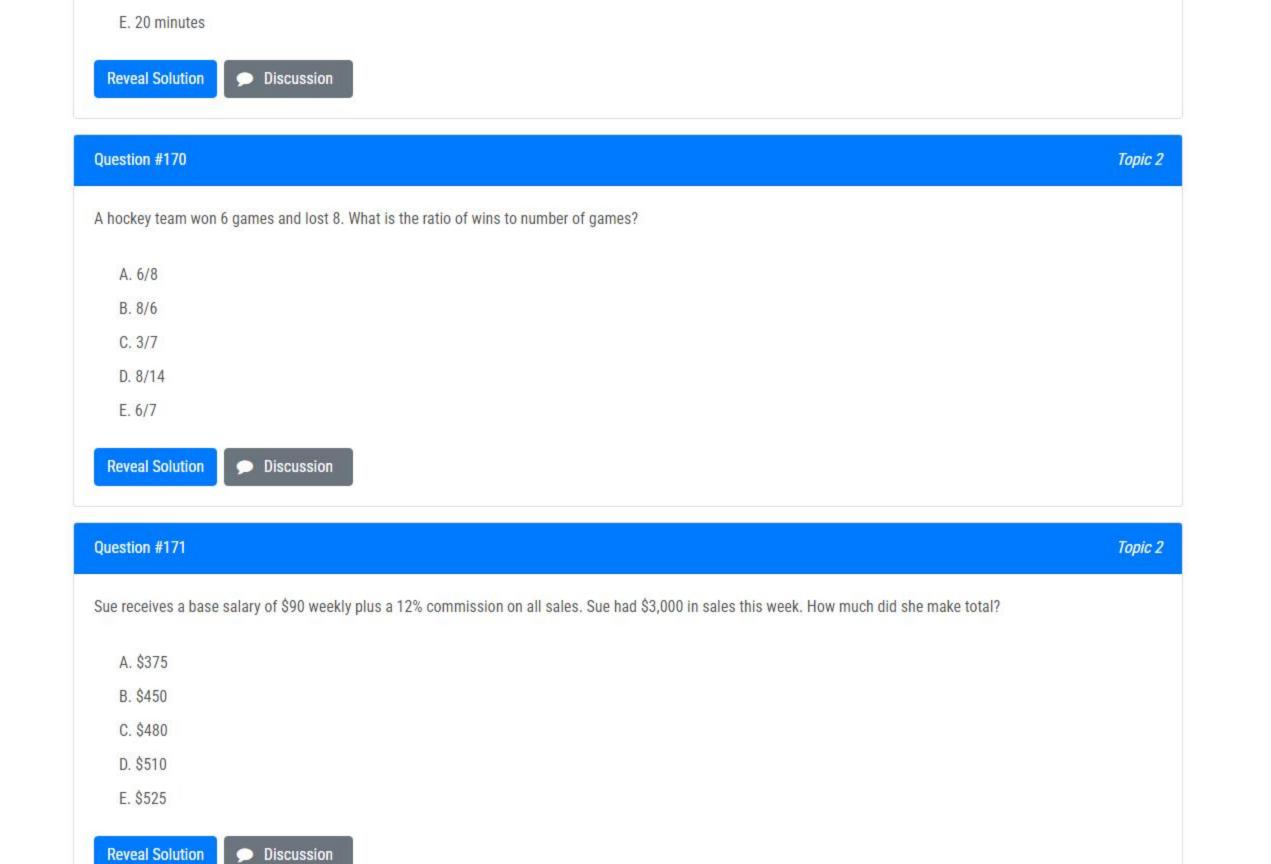
Reveal Solution

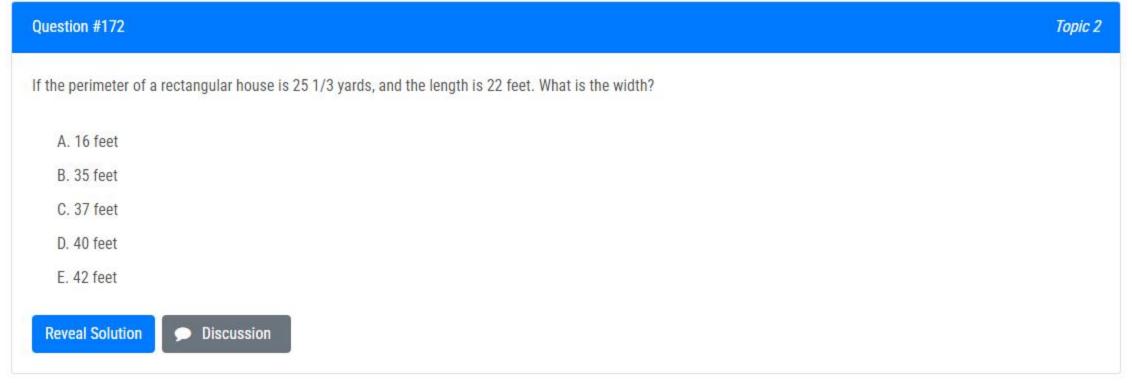


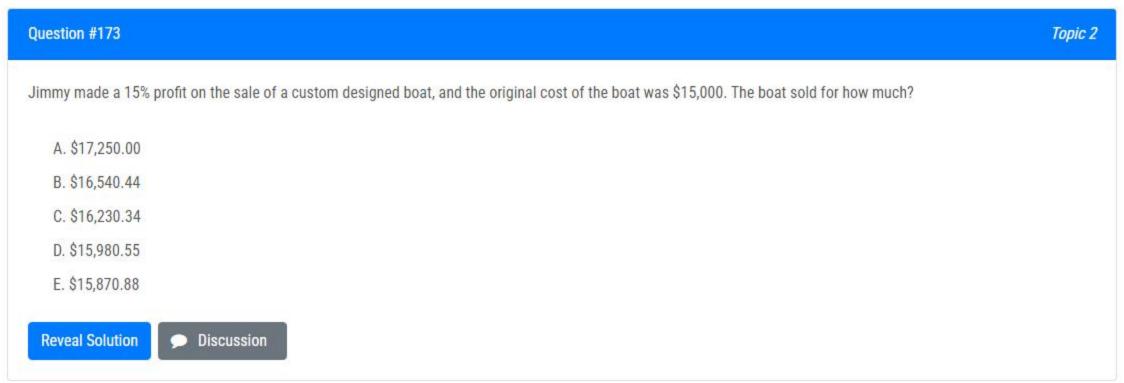
Question #169 Topic 2

Jonathan can type a 20 page document in 40 minutes, Susan can type it in 30 minutes, and Jack can type it in 24 minutes. Working together, how much time will it take them to type the same document?

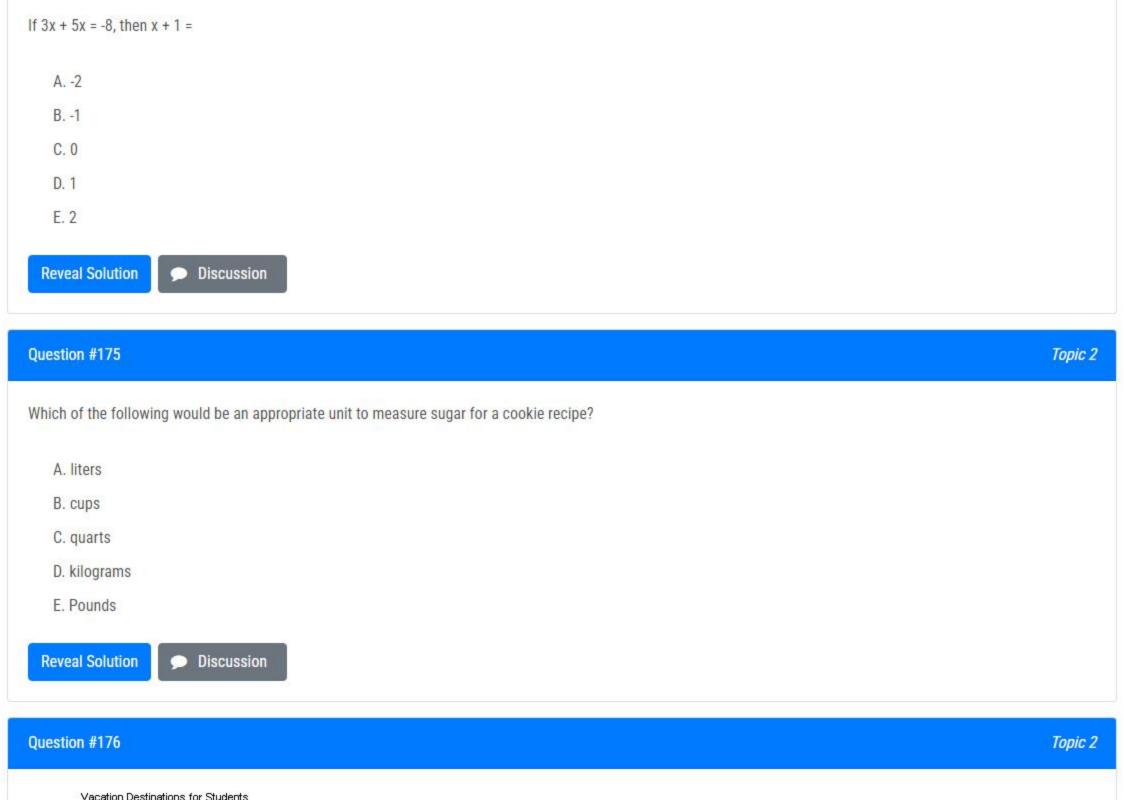
- A. 5 minutes
- B. 10 minutes
- C. 15 minutes
- D. 18 minutes





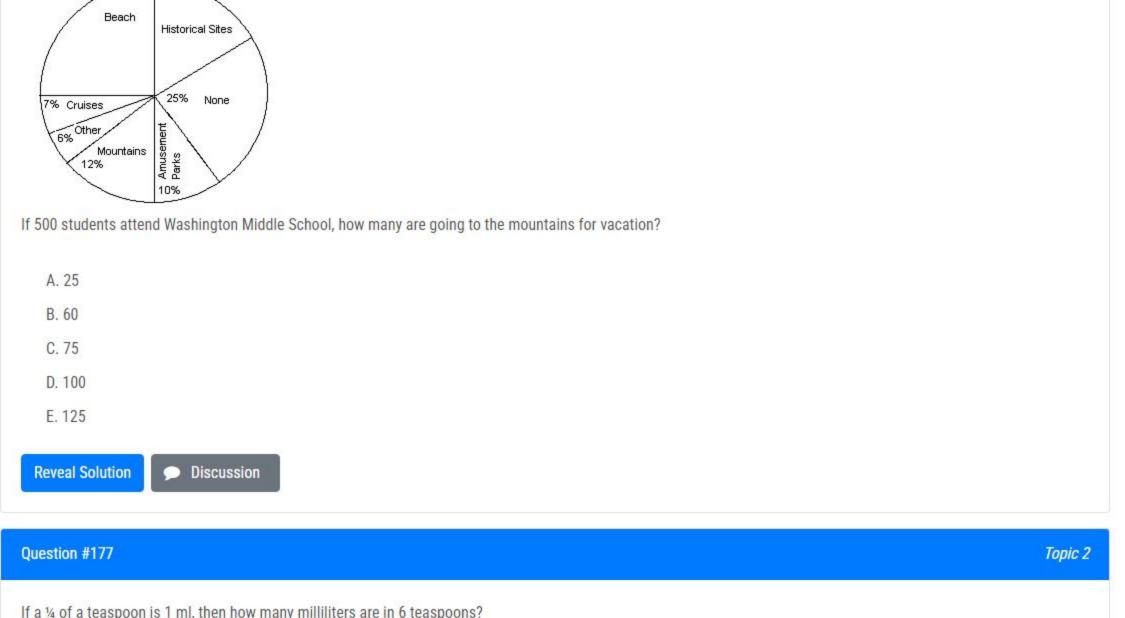


Question #174 Topic 2



tending Washington Middle Sch

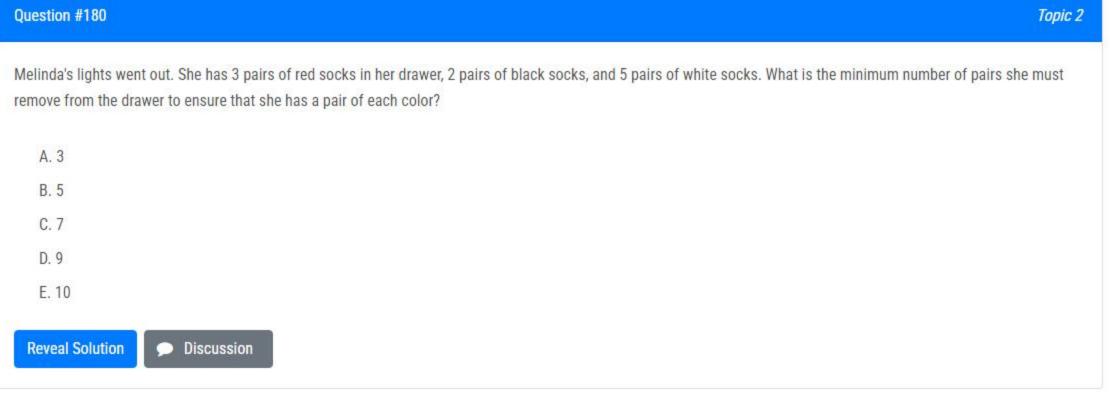
Vacation Destinations for Students Attending Washington Middle School

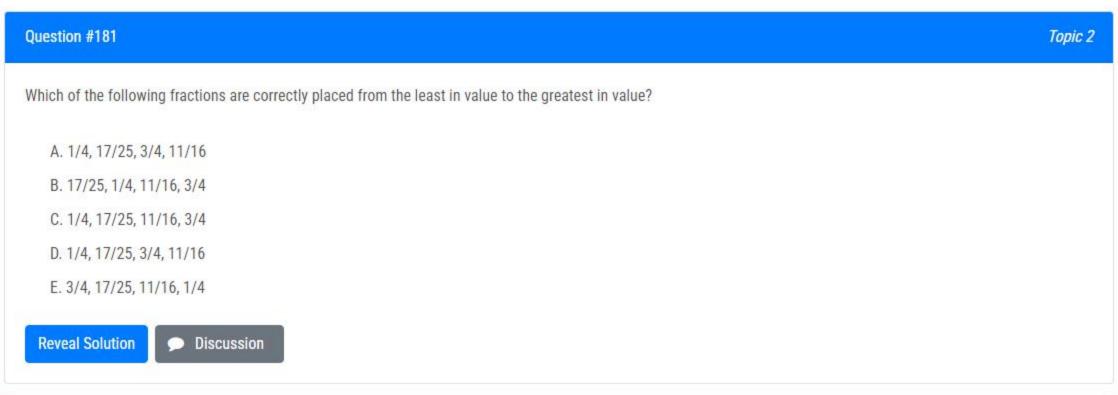




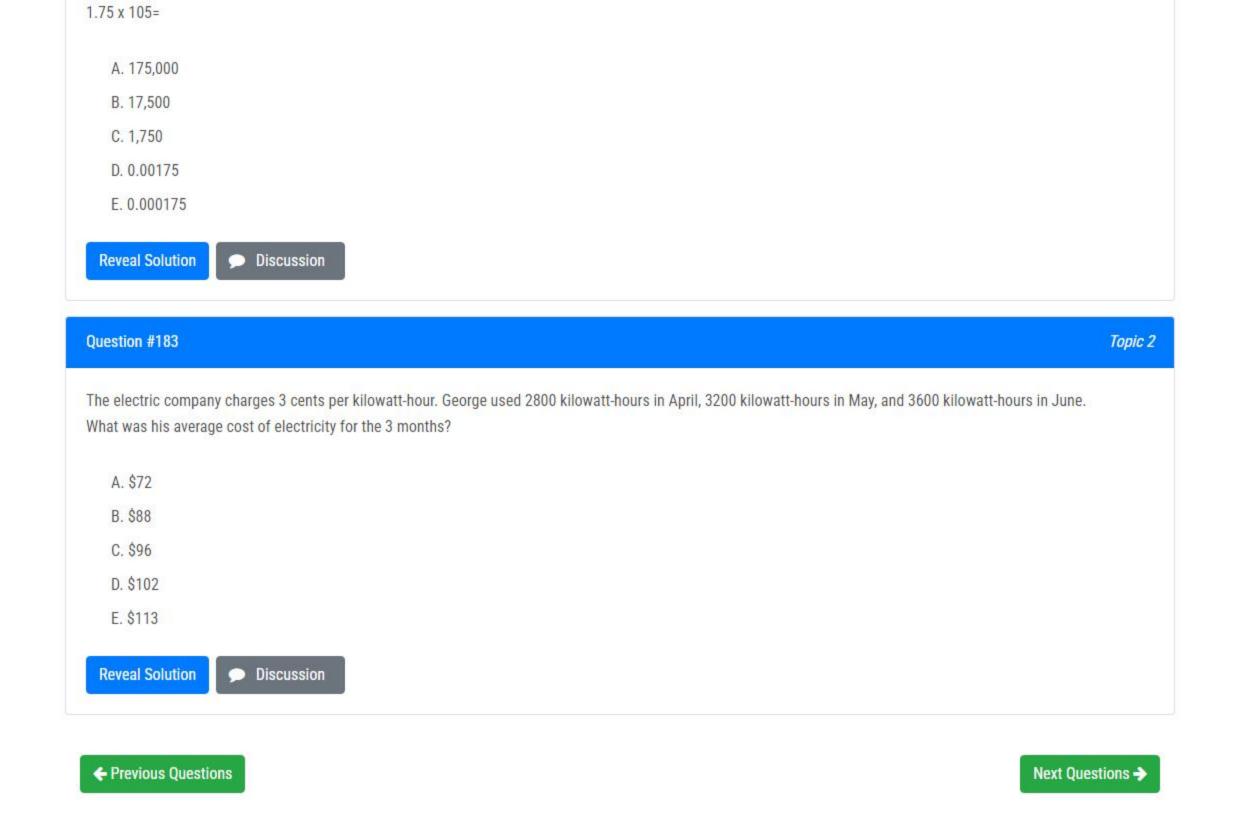
Reveal Solution

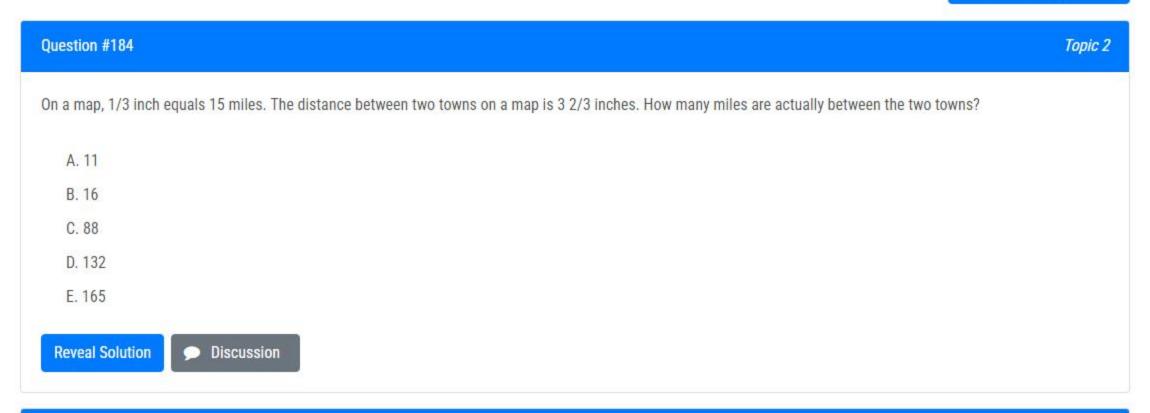
Discussion

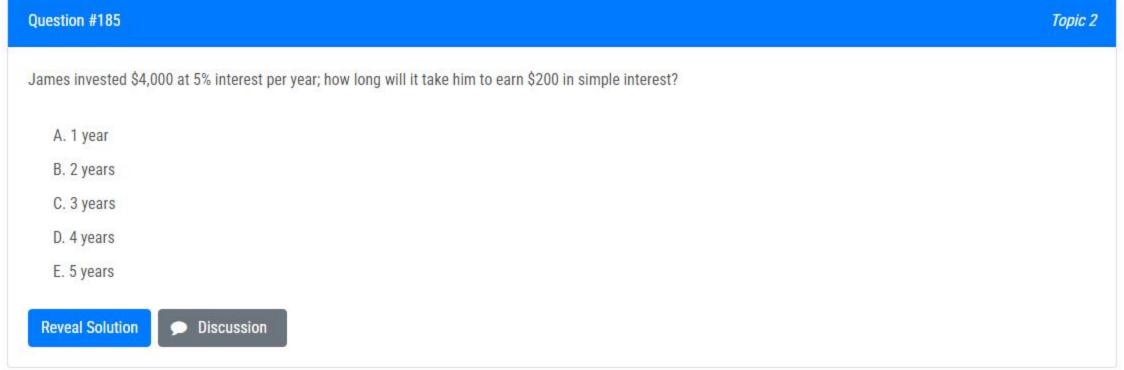




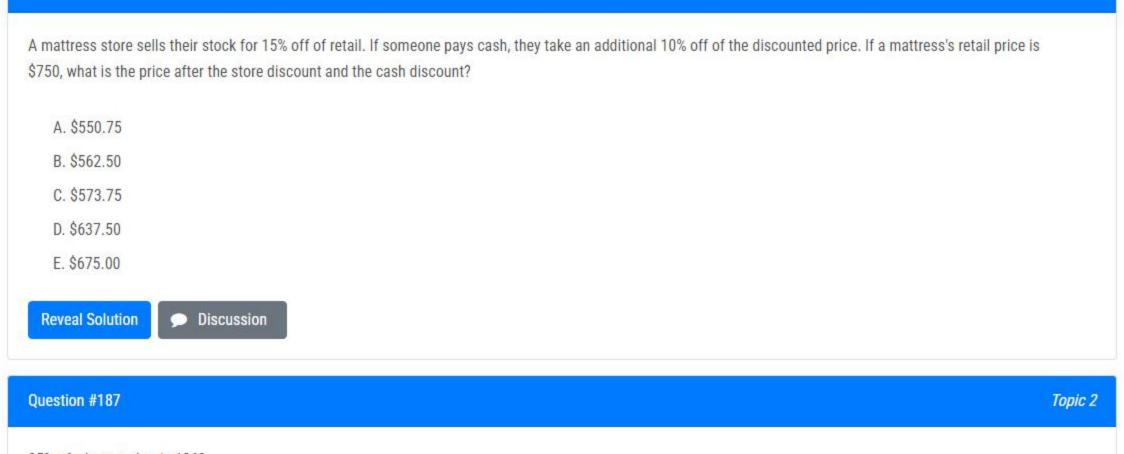
Question #182 Topic 2

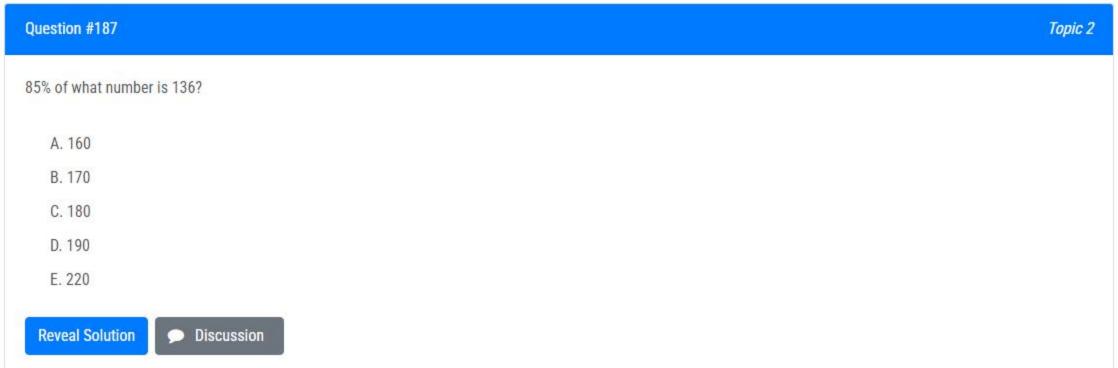






Question #186 Topic 2

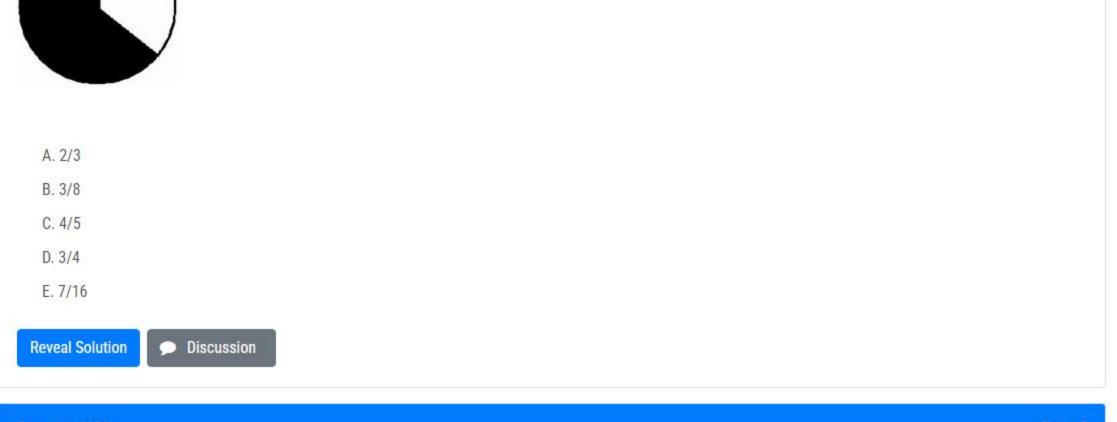


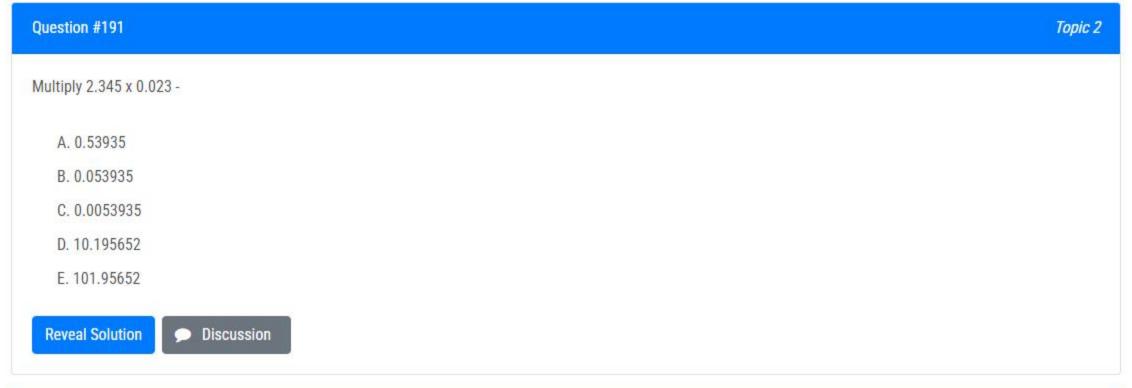


Question #188 Topic 2

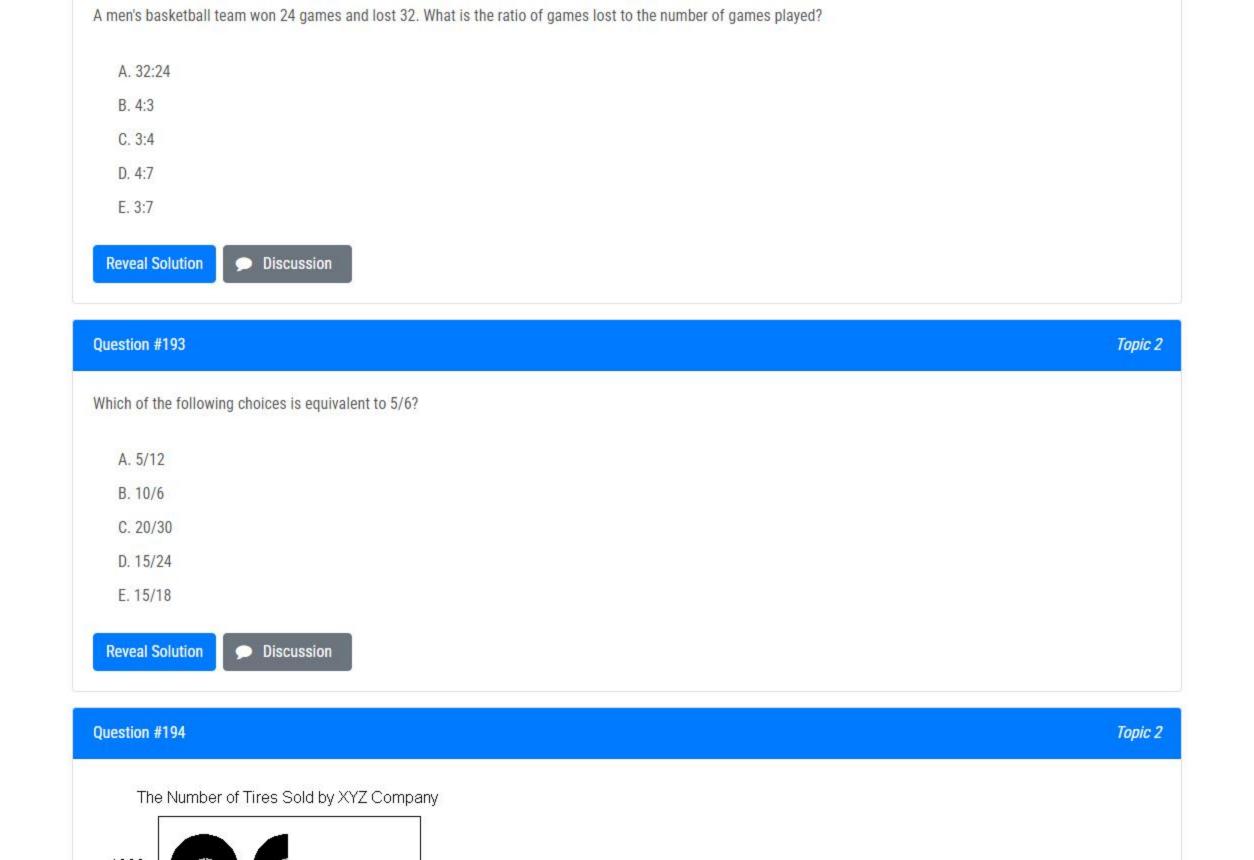
A building that is 150 ft tall casts a shadow of 20 feet long. At the same time a tree casts a shadow of 2 ft. How tall is the tree?

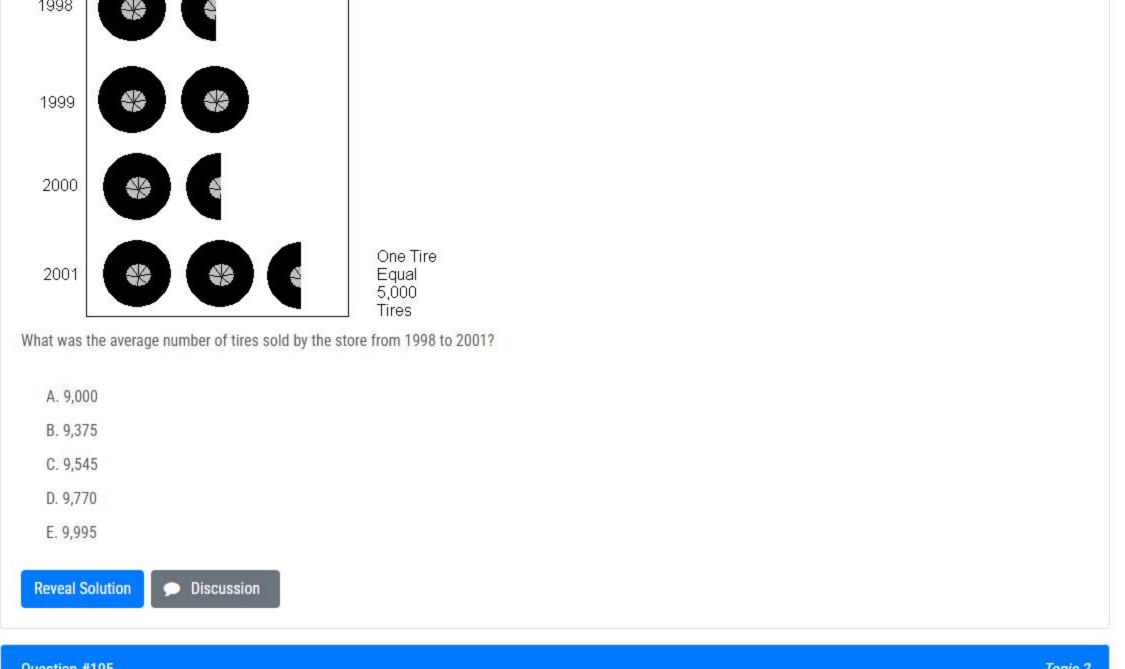


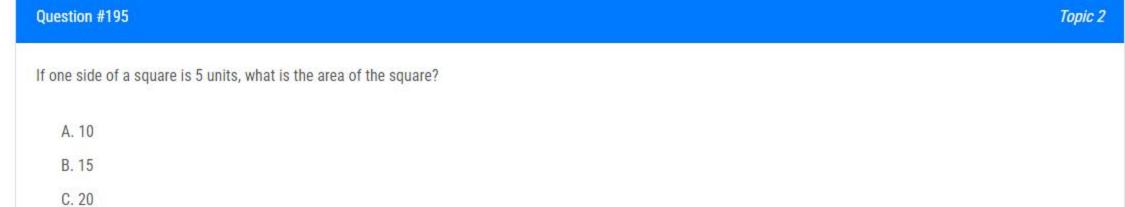


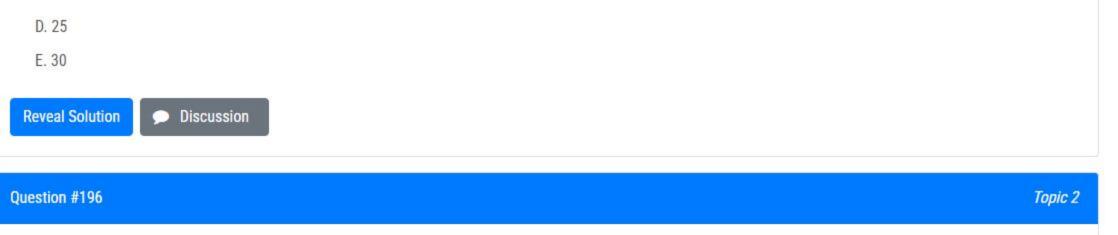


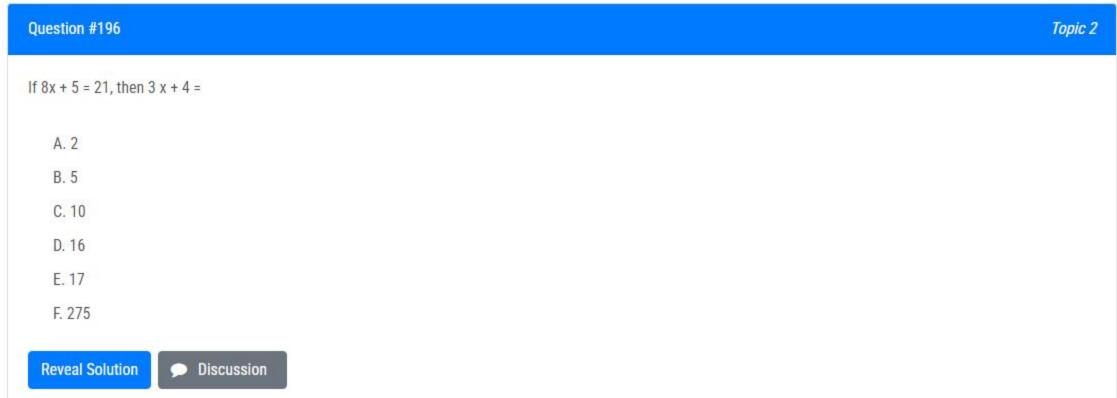
Question #192 Topic 2

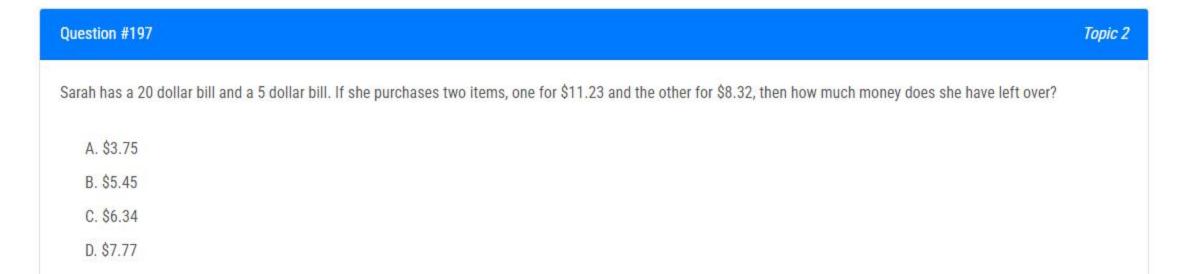


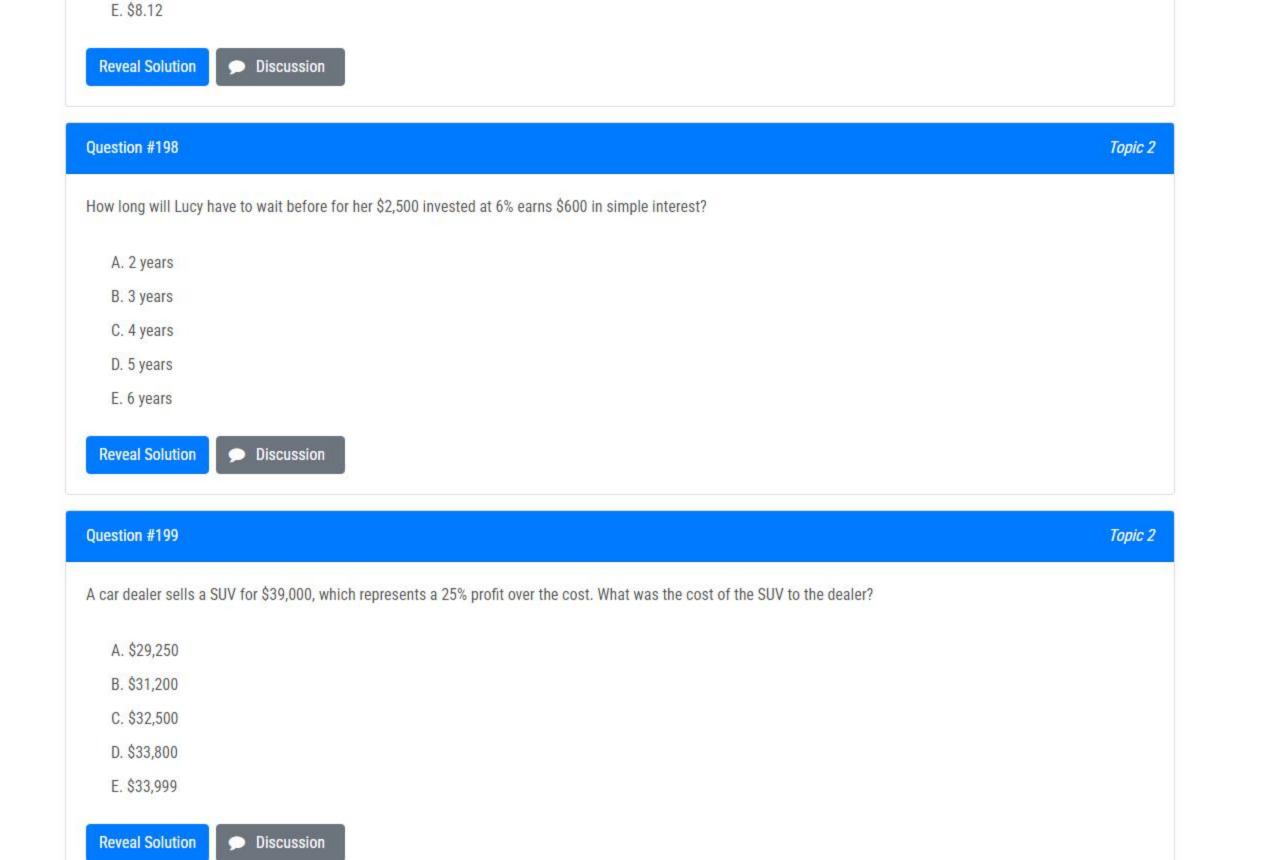


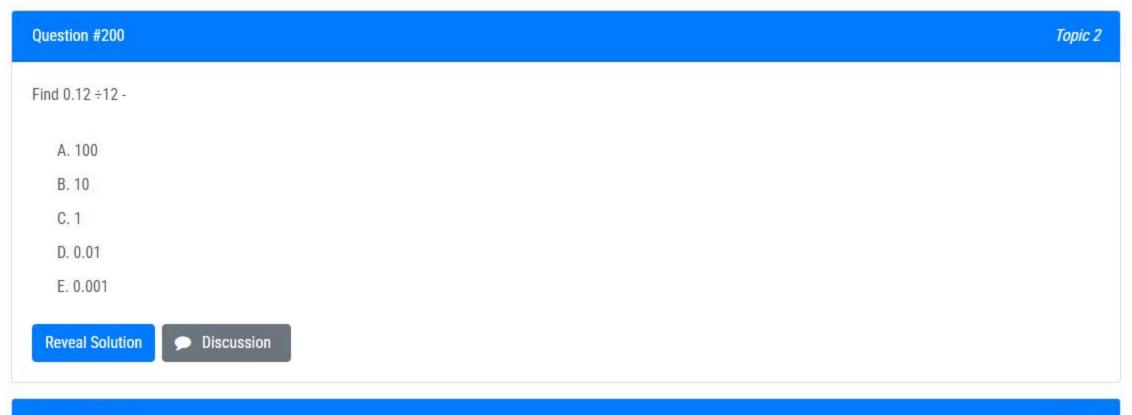






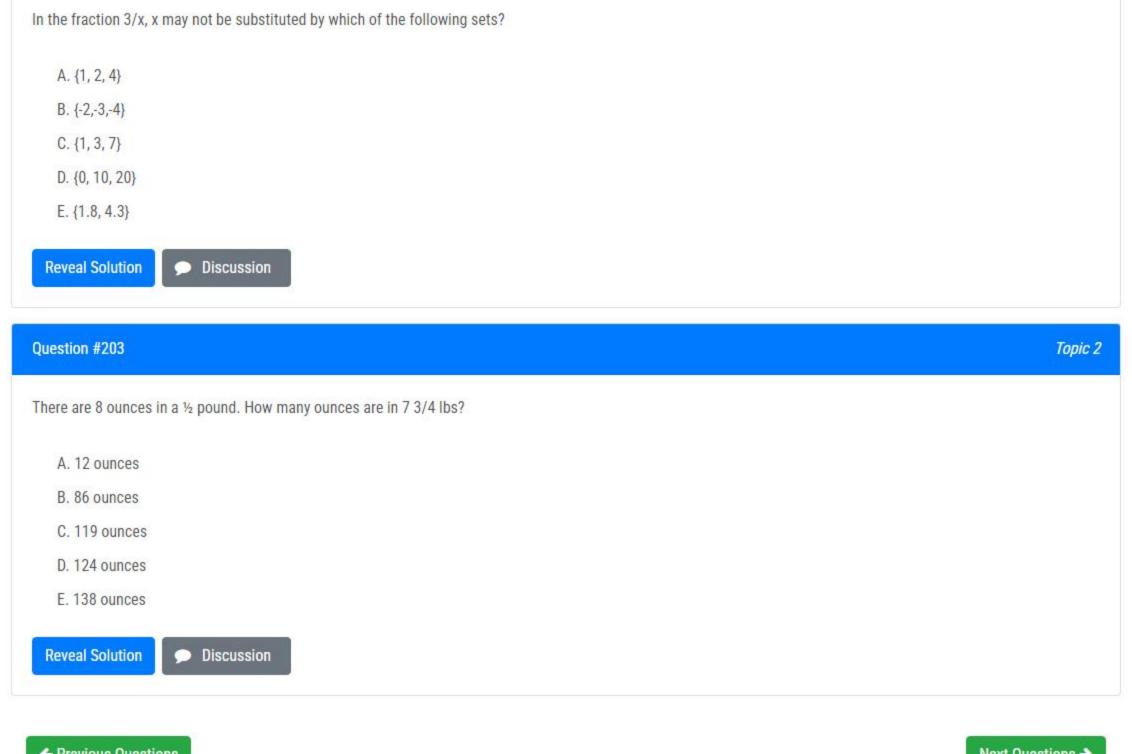






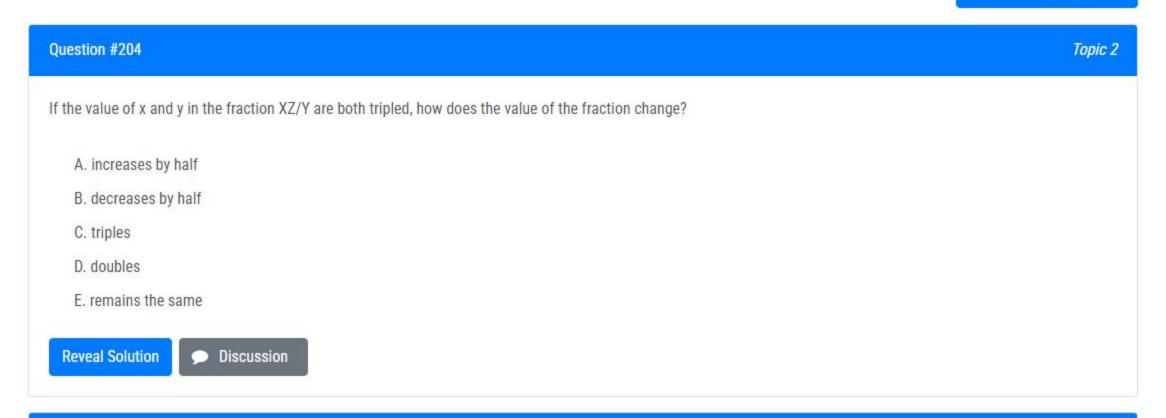


Question #202 Topic 2



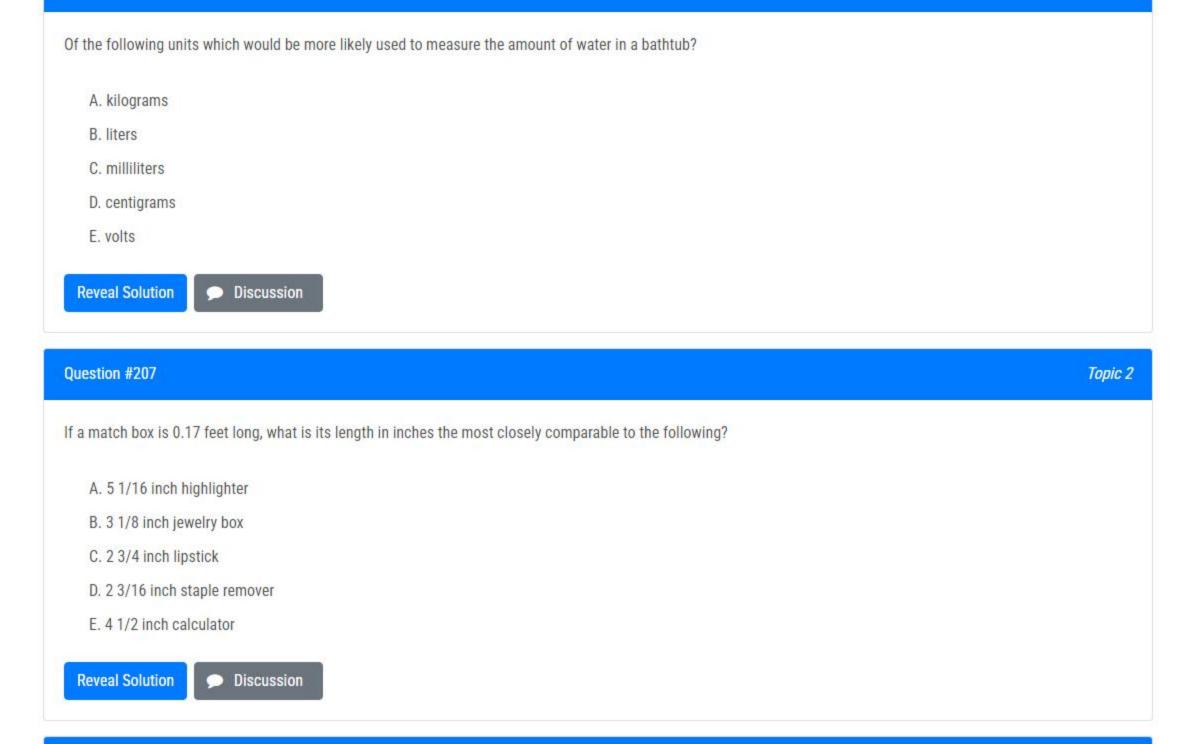
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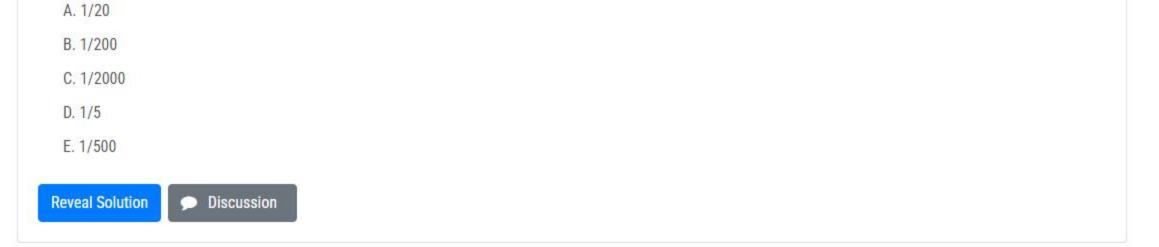




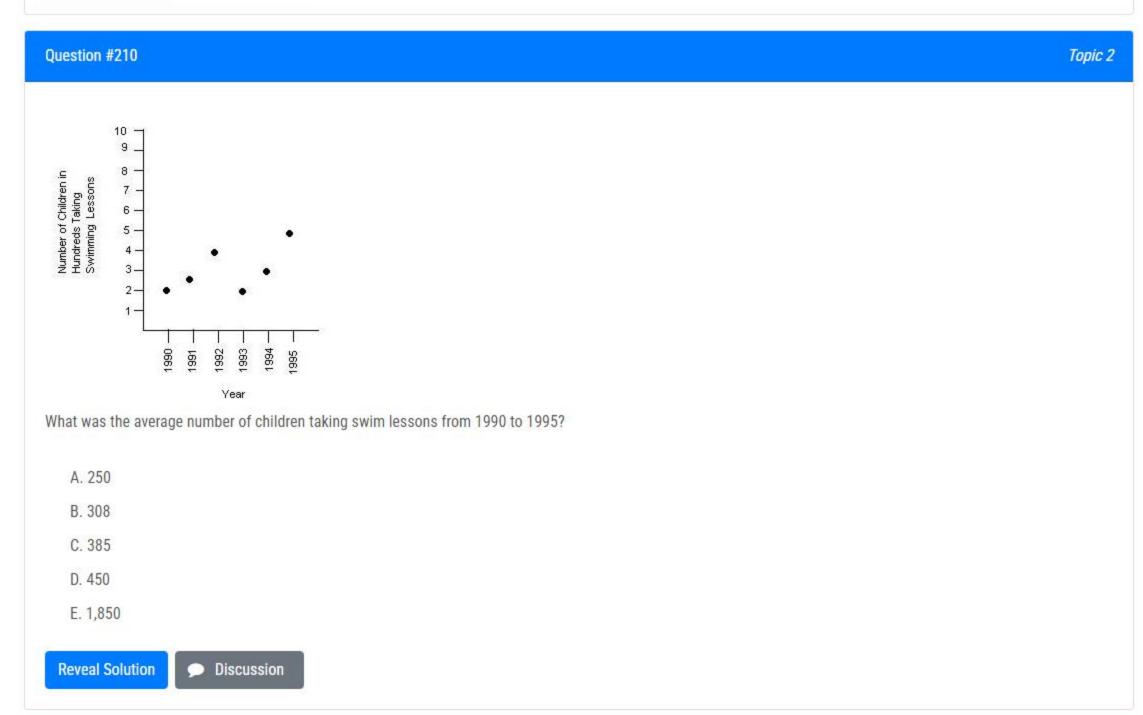
Question #206 Topic 2





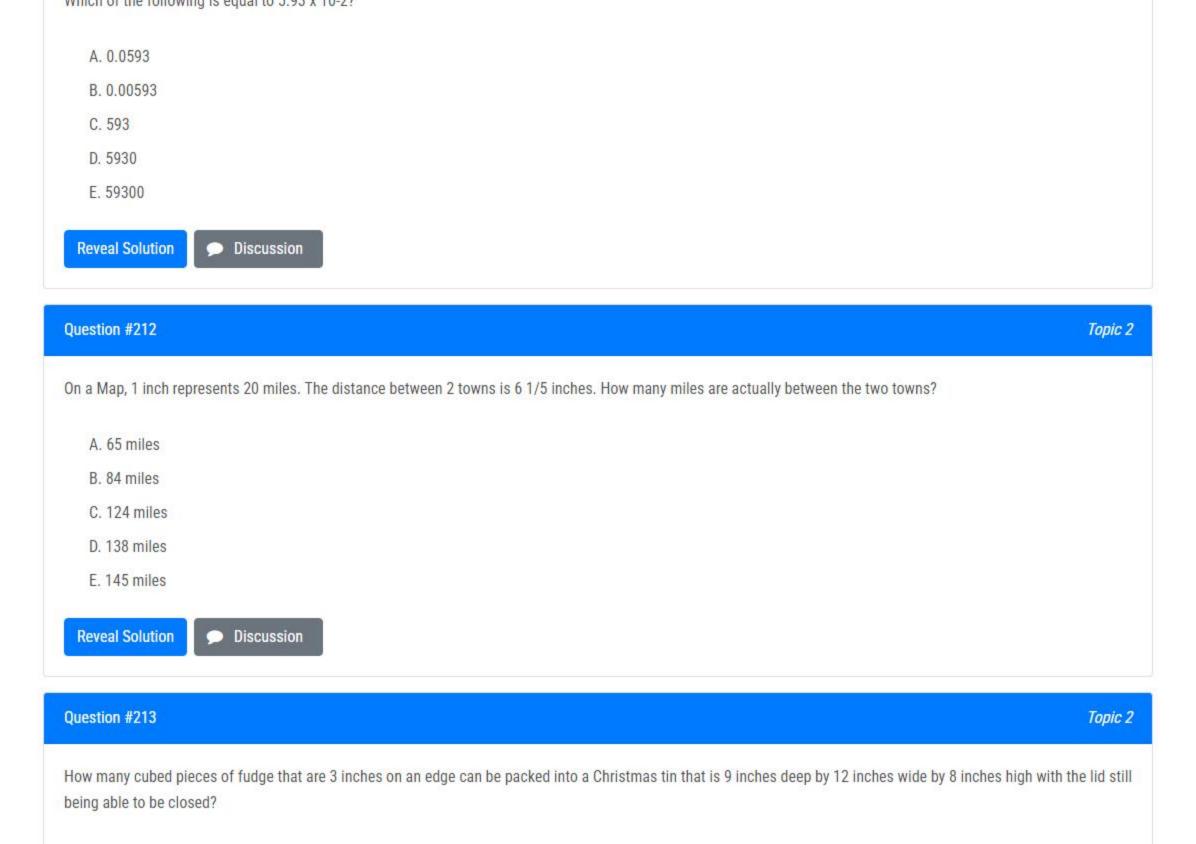






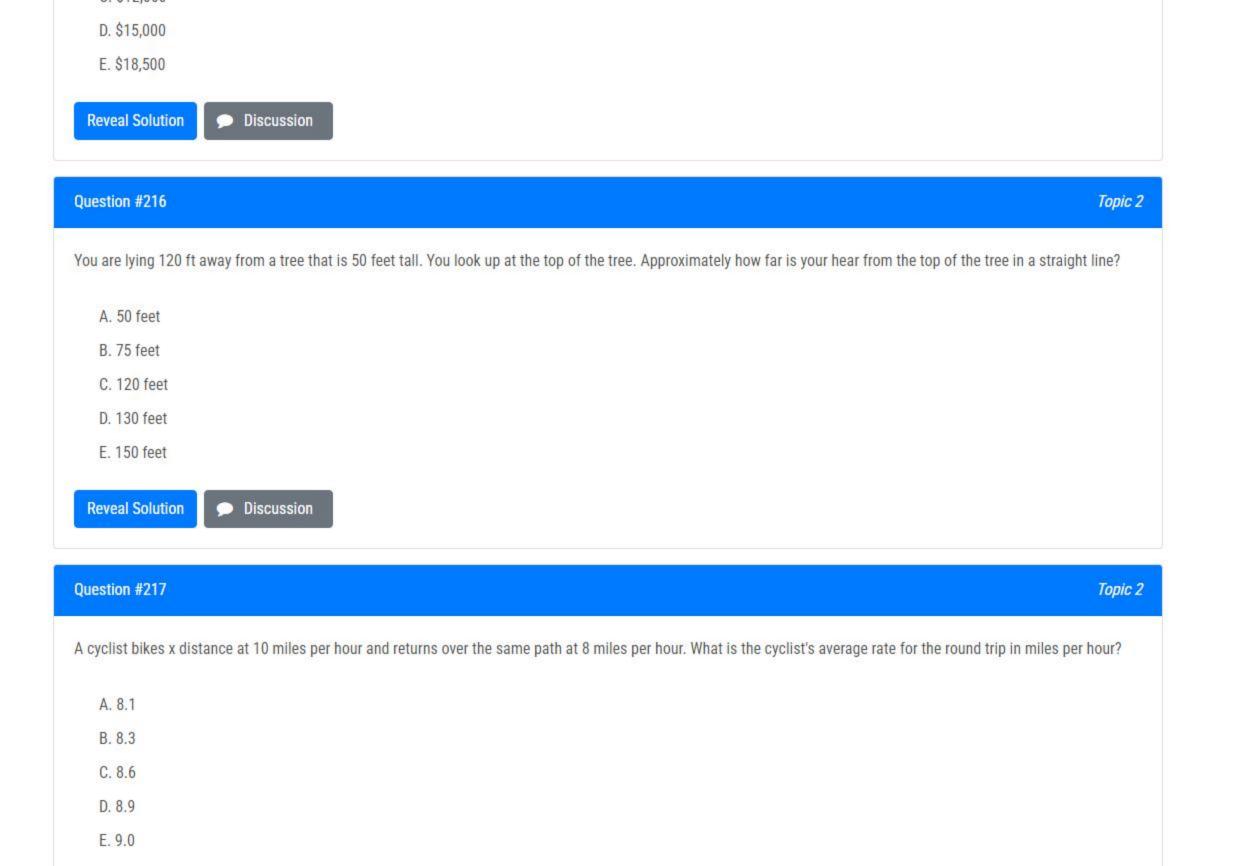
Question #211 Topic 2

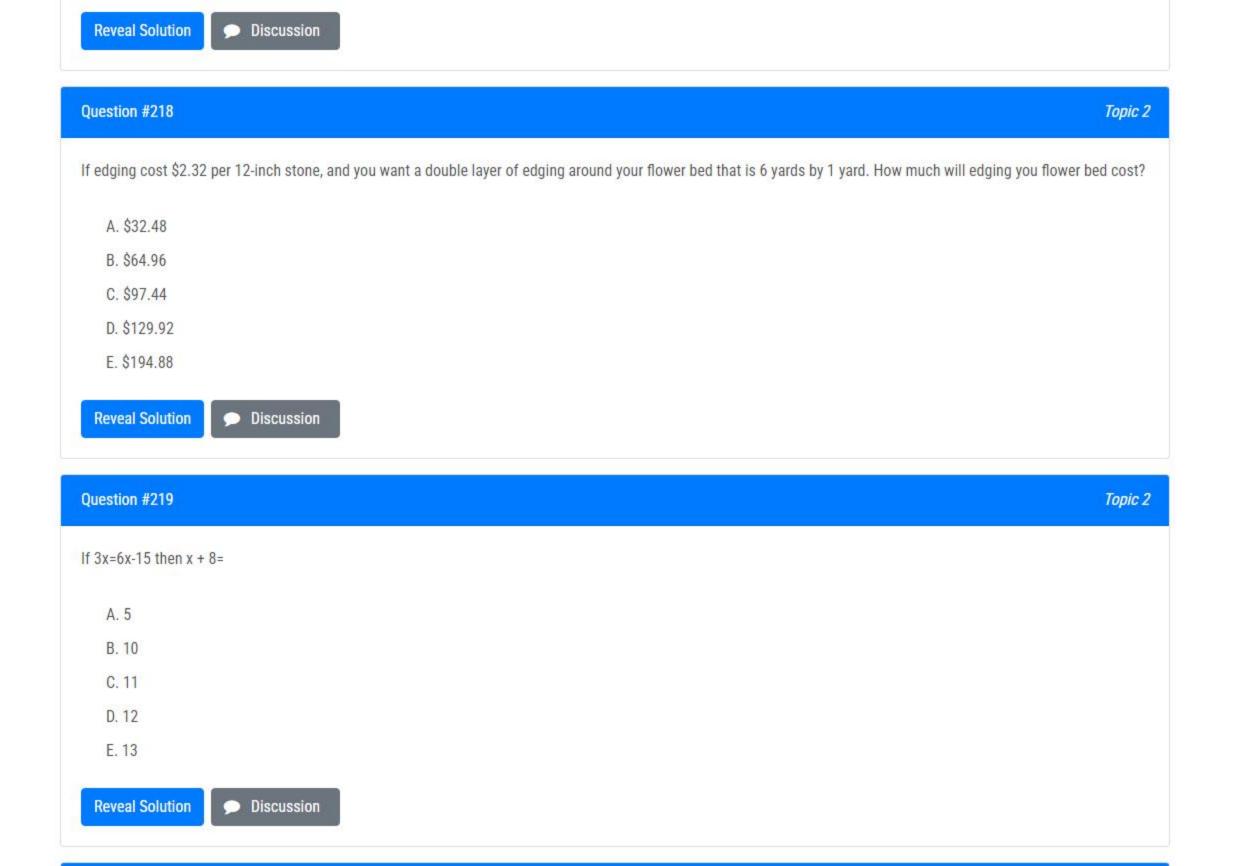
Which of the following is equal to F 02 v 10 22

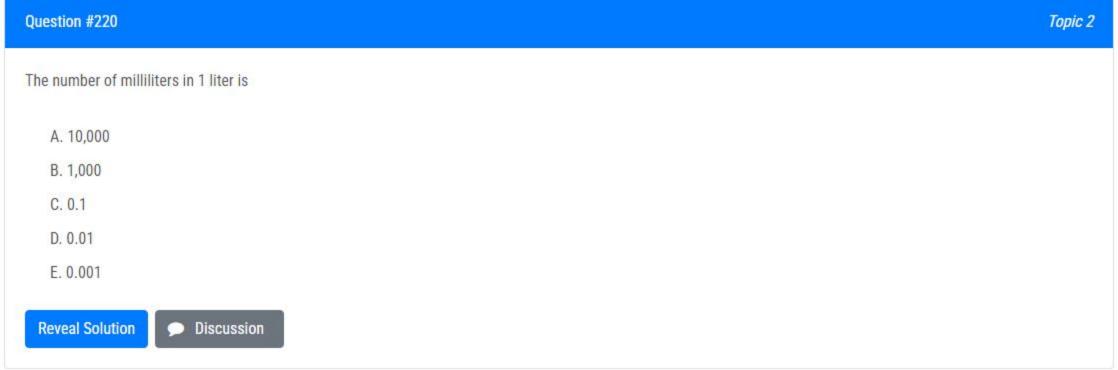


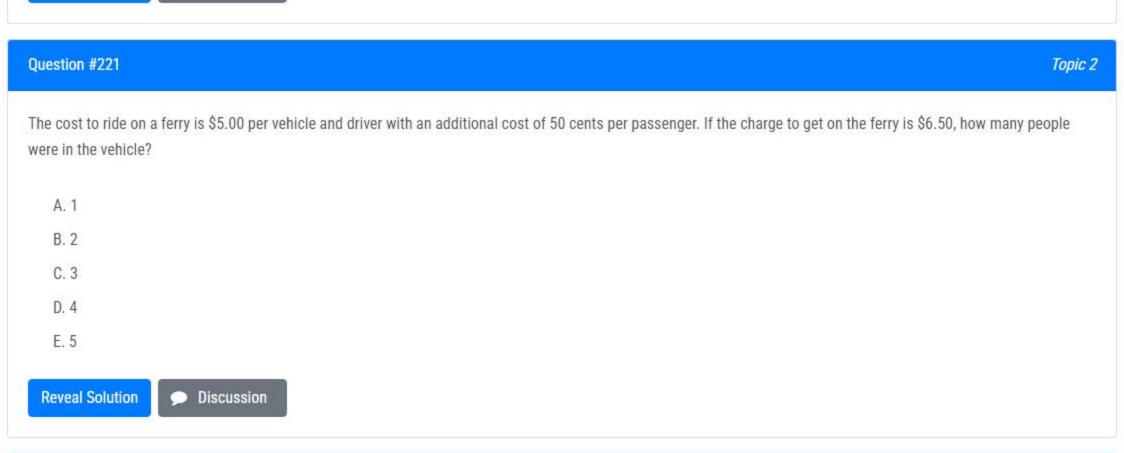
A. 18



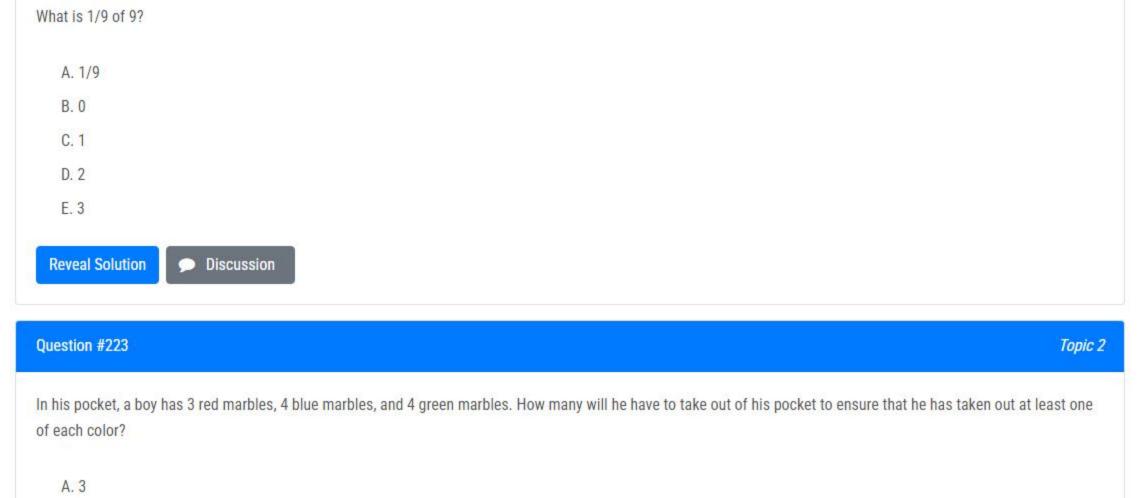


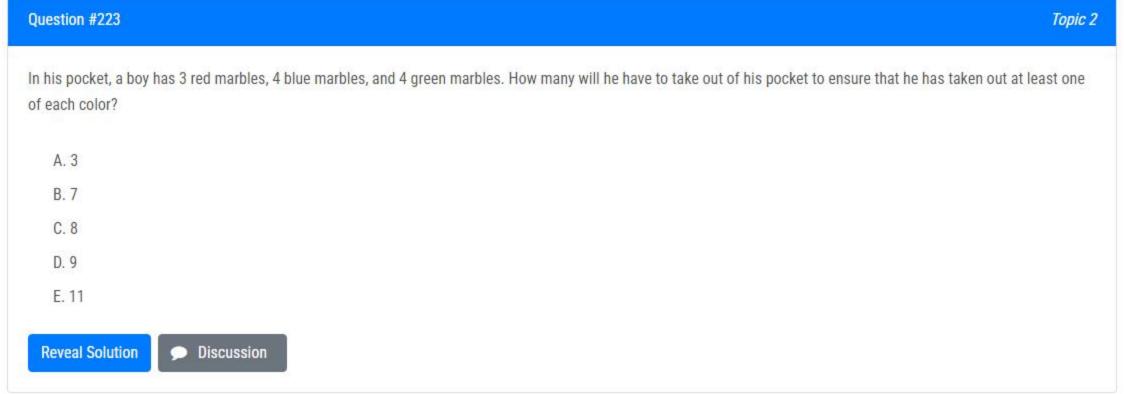


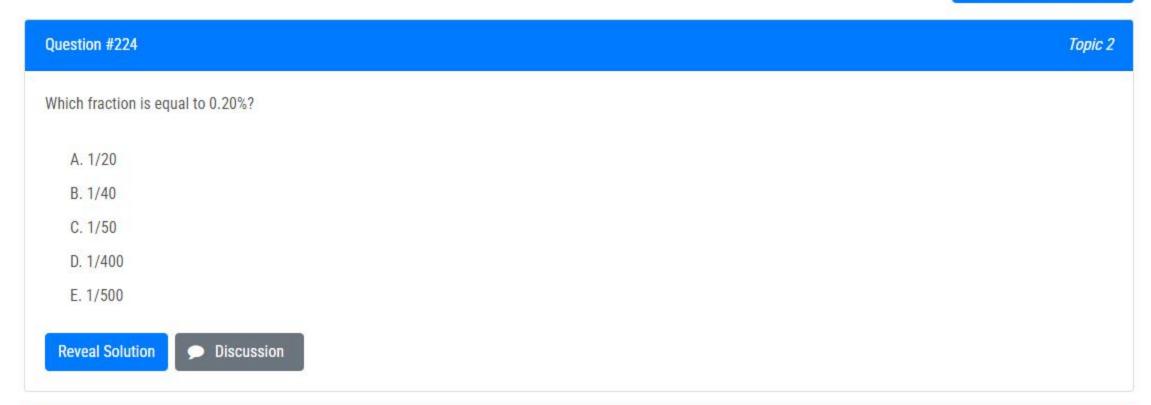




Question #222 Topic 2

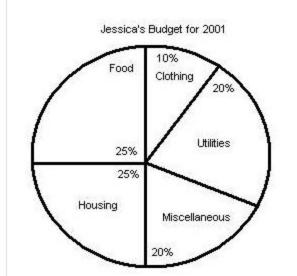








Question #226 Topic 2



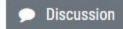
Jessica's Monthly Earnings from January 2001 to June 2001

577		
January	\$2578	
February	\$2432	
March	\$2668	
April	\$2490	
May	\$2622	
June	\$2555	

If Jessica only spent 20% instead of the 25% allotment for food in May of 2001, how much did she save?

- A. \$131.10
- B. \$144.30
- C. \$148.32
- D. \$152.22
- E. \$153.33

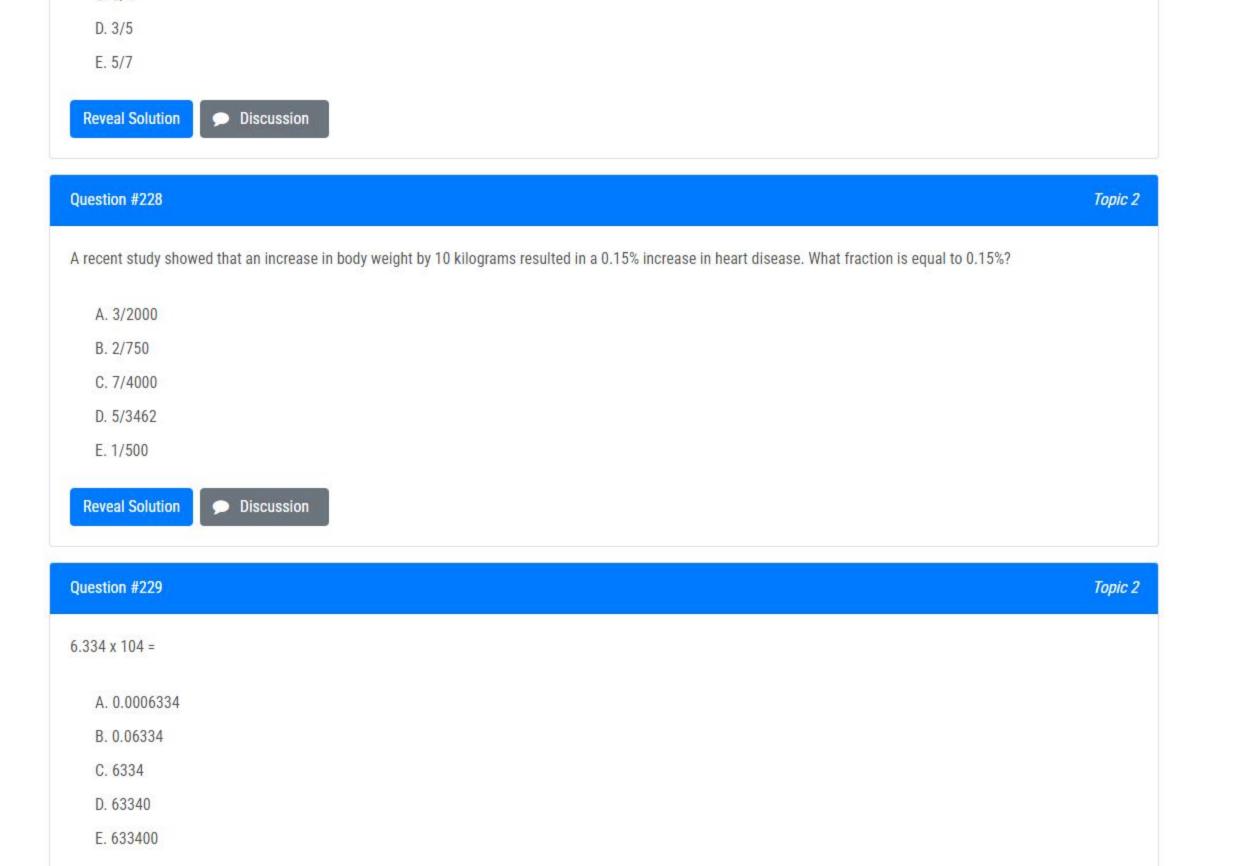
Reveal Solution

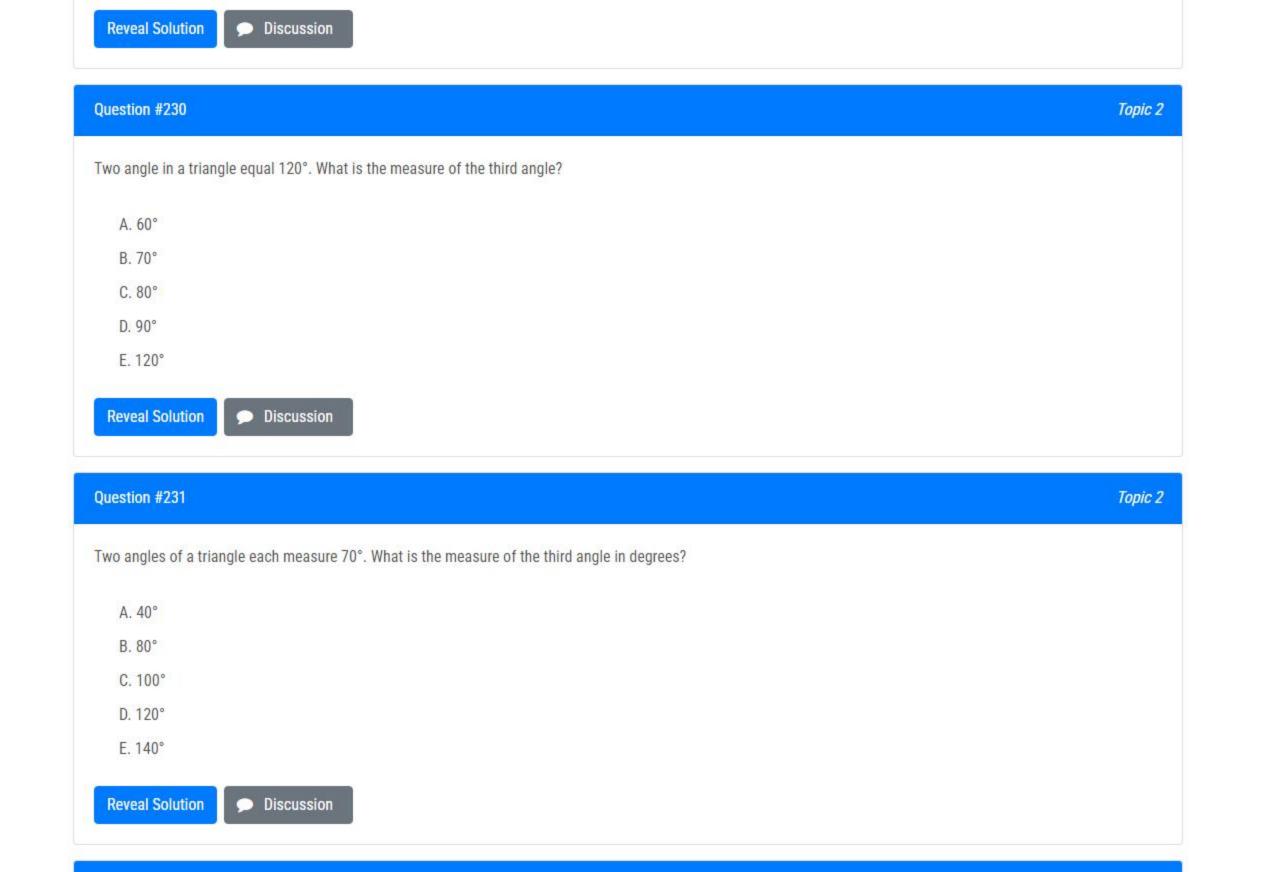


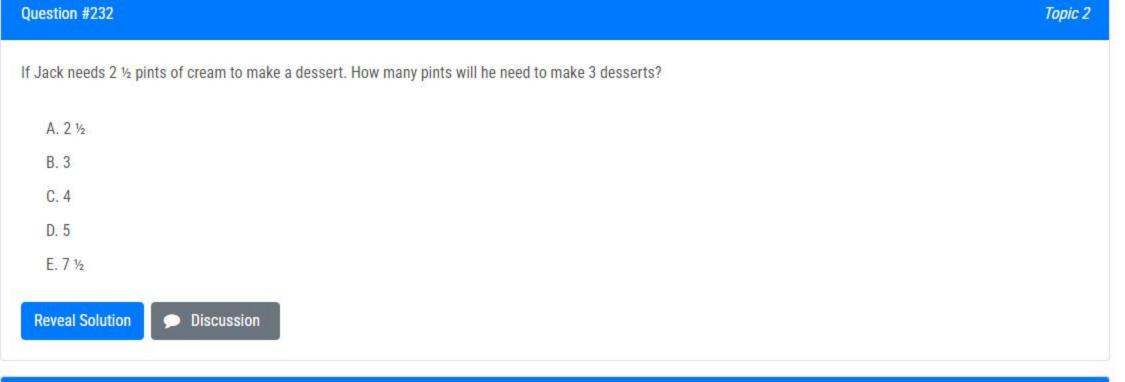
Question #227 Topic 2

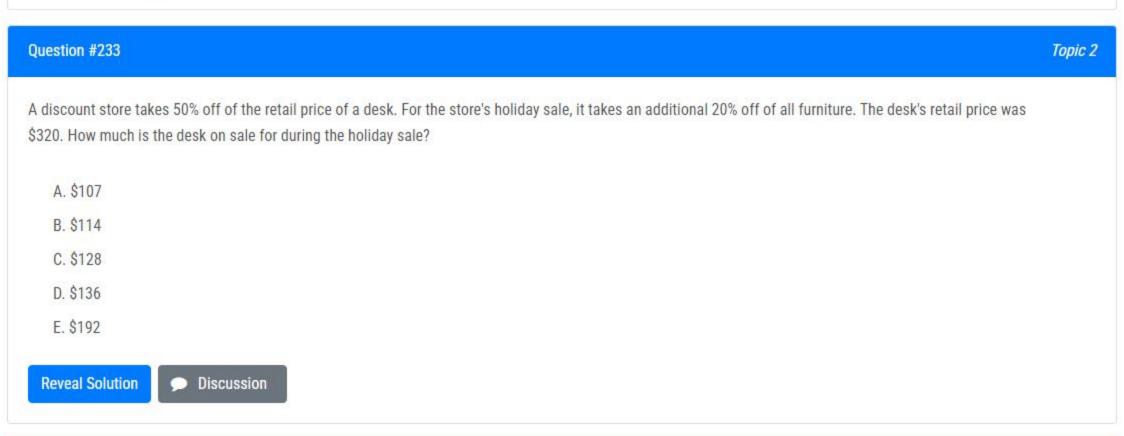
Of the following fractions, which is less than 2/3?

- A. 7/8
- B. 5/6
- 0 2/4

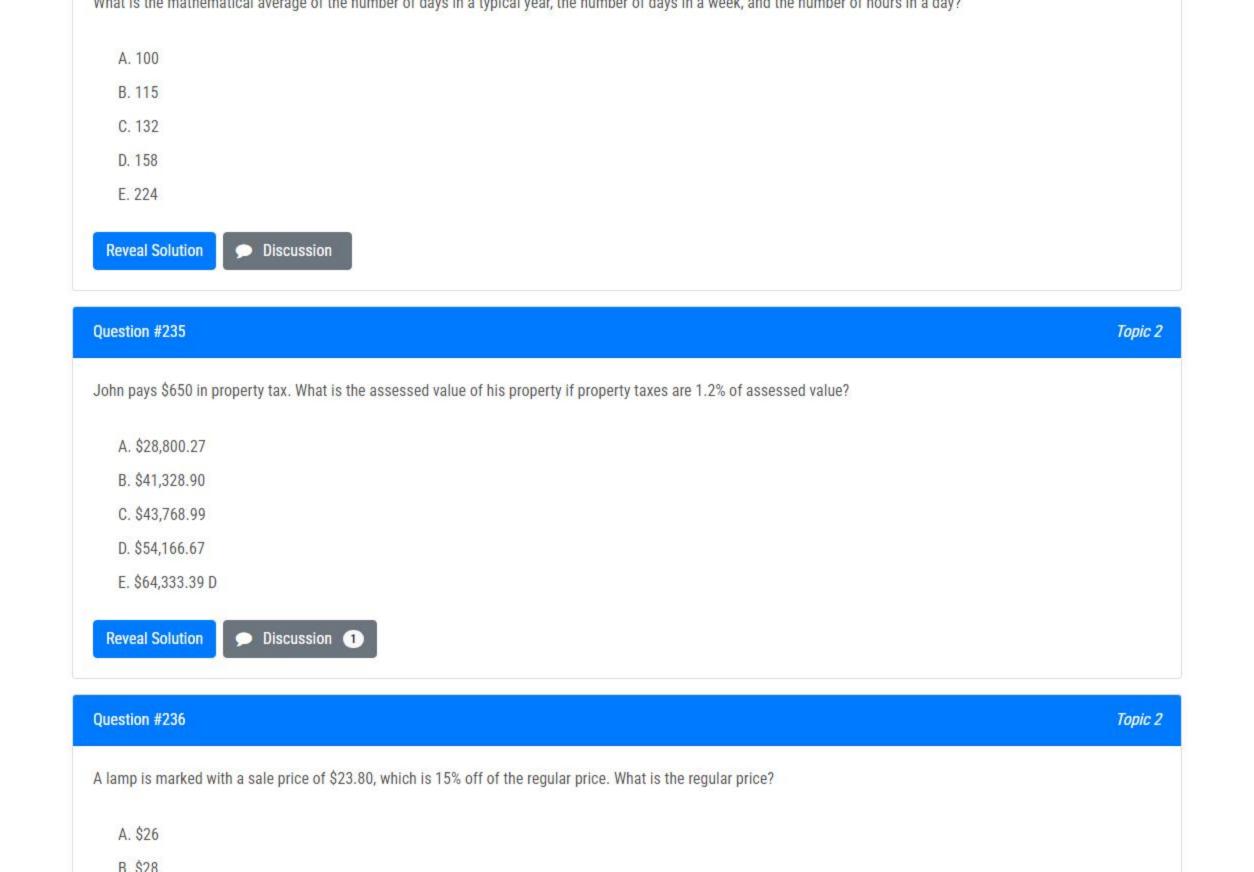


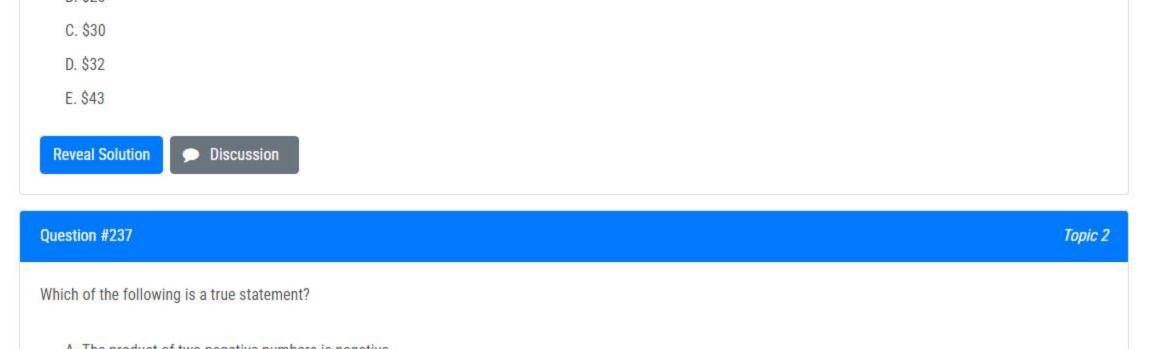


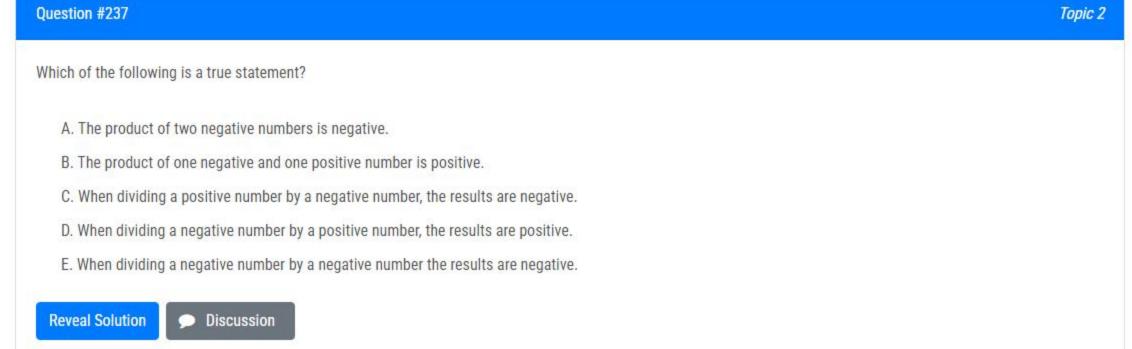




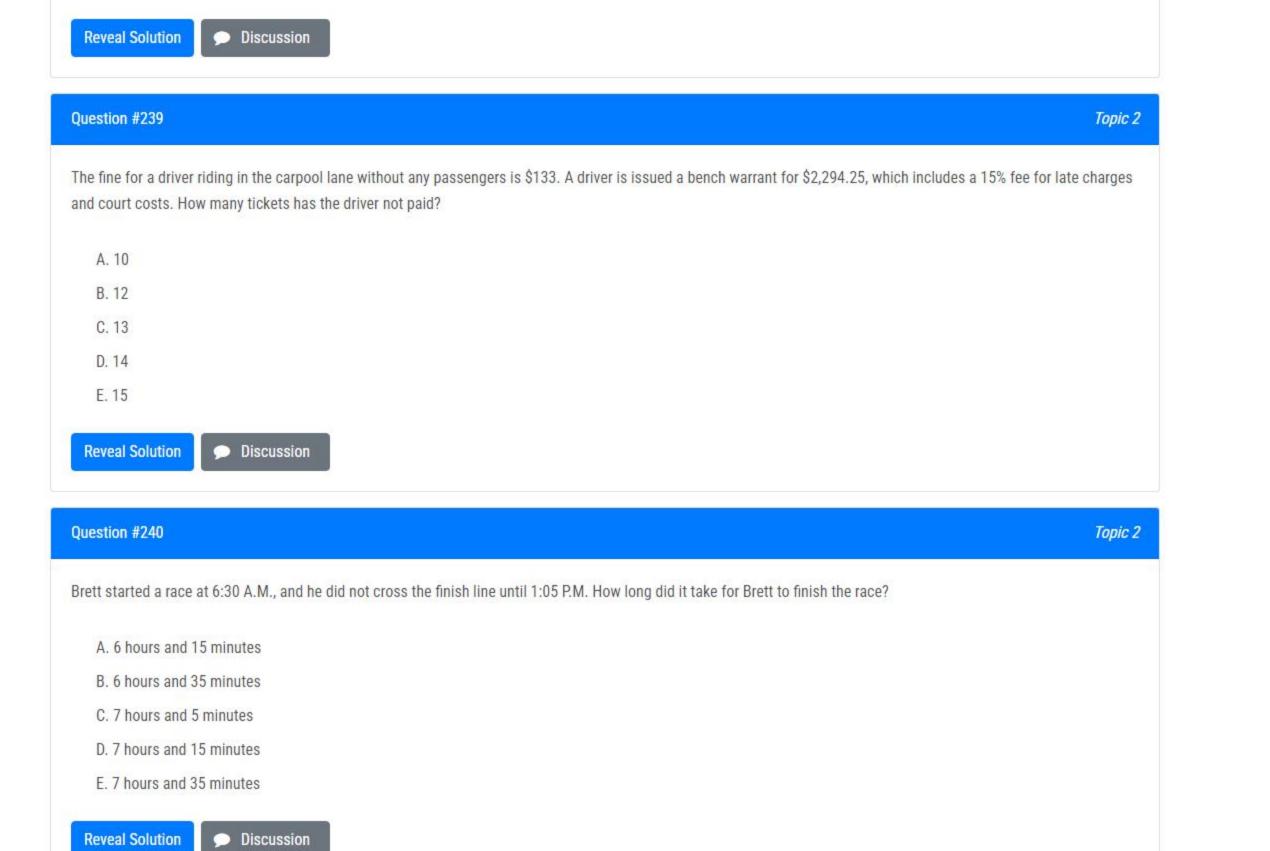
Question #234 Topic 2



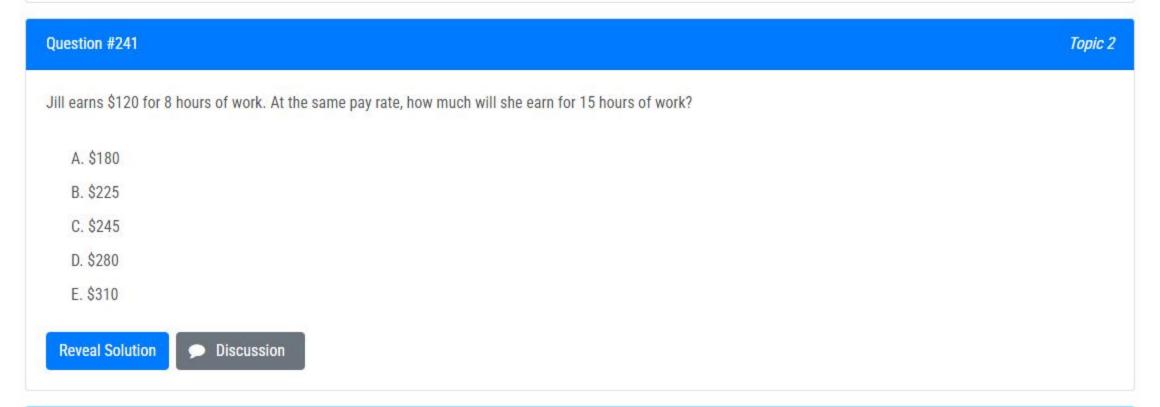


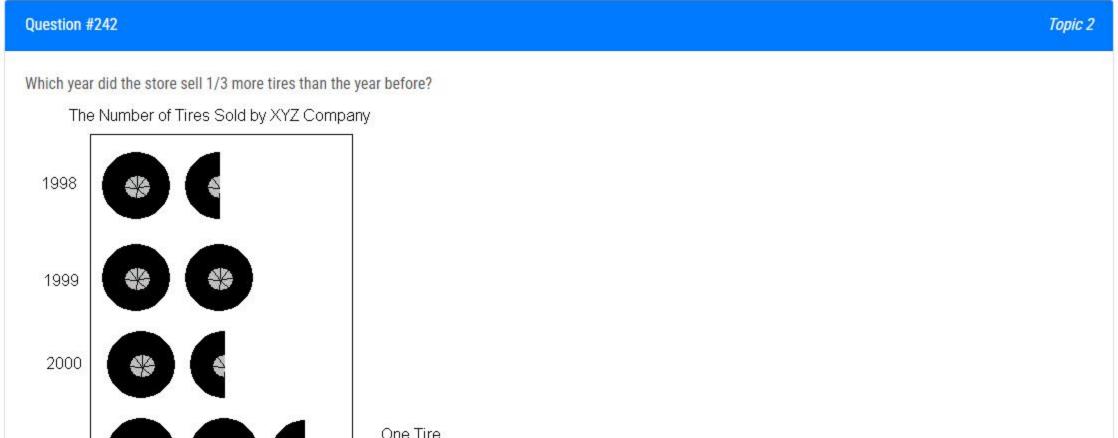


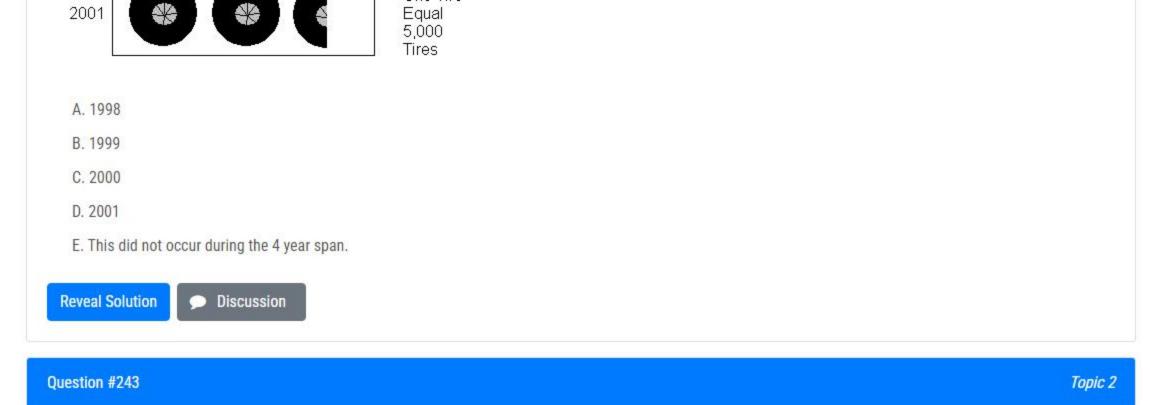


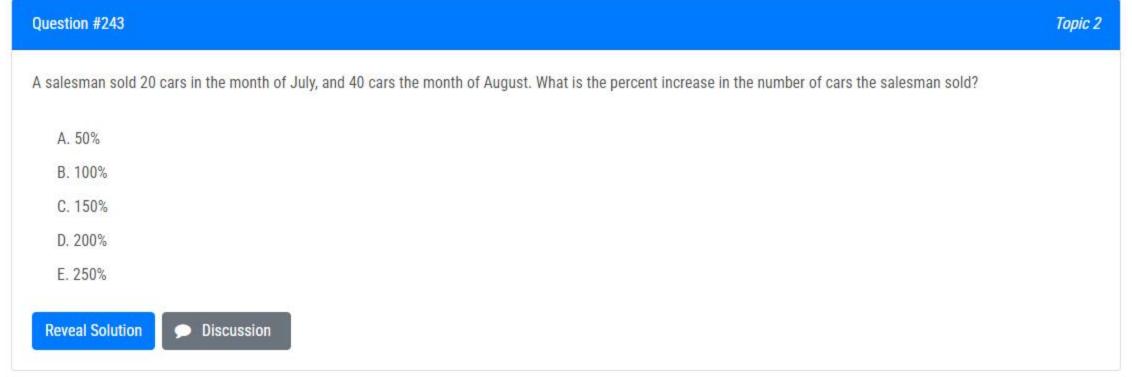


E. 1Z/3



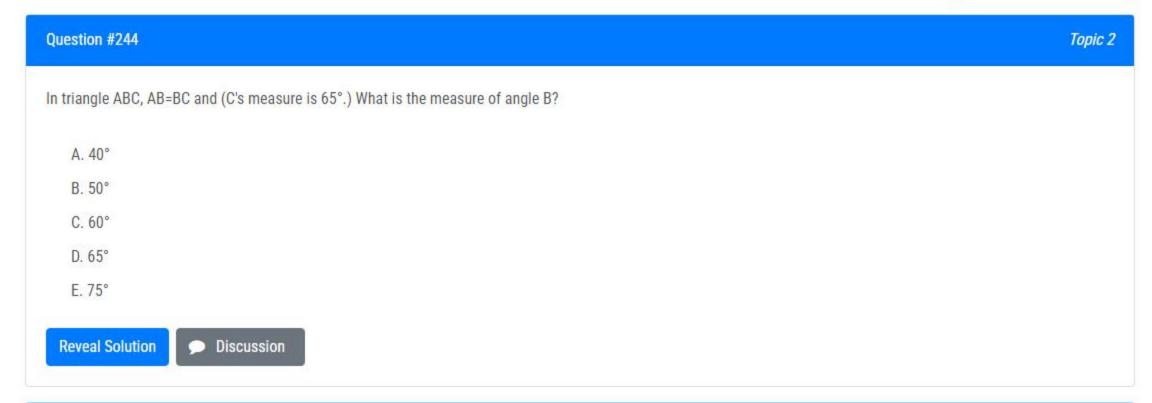


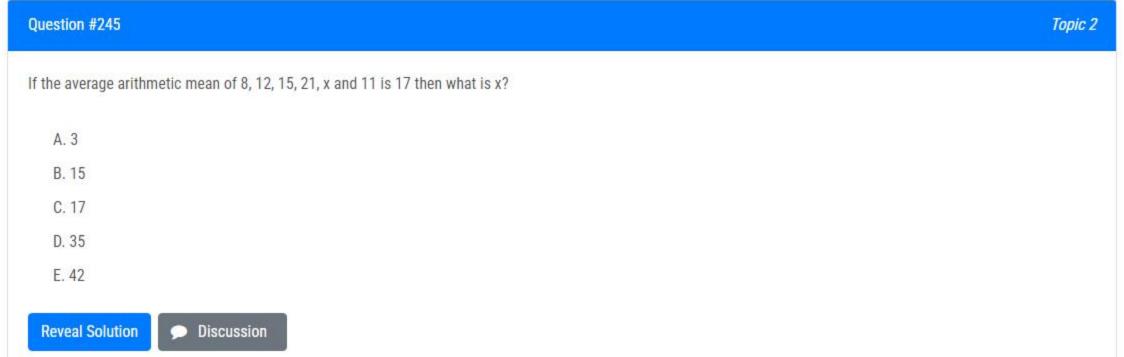


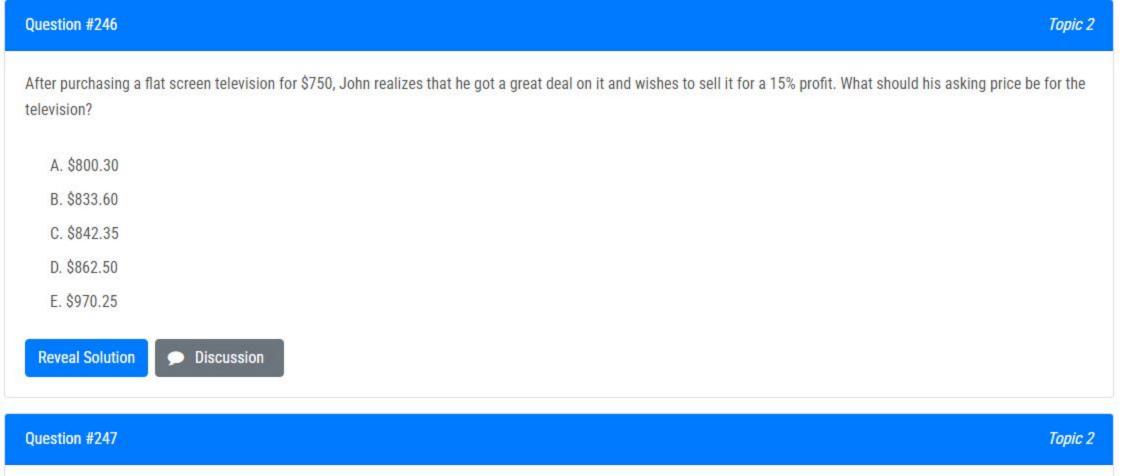


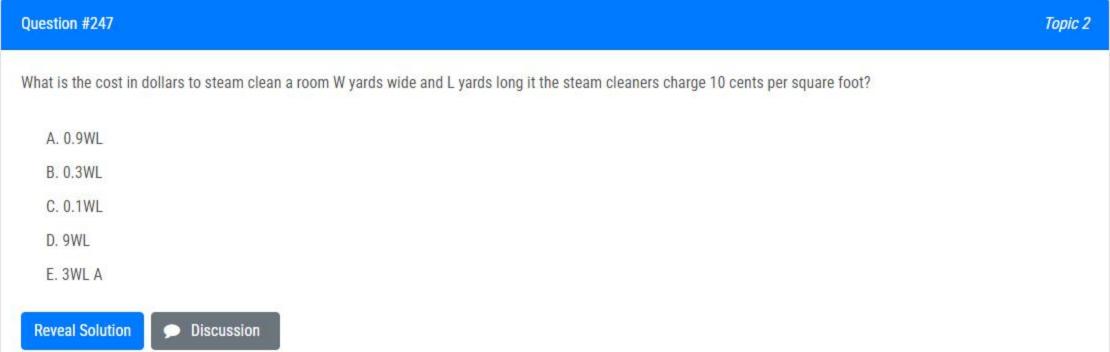
← Previous Questions

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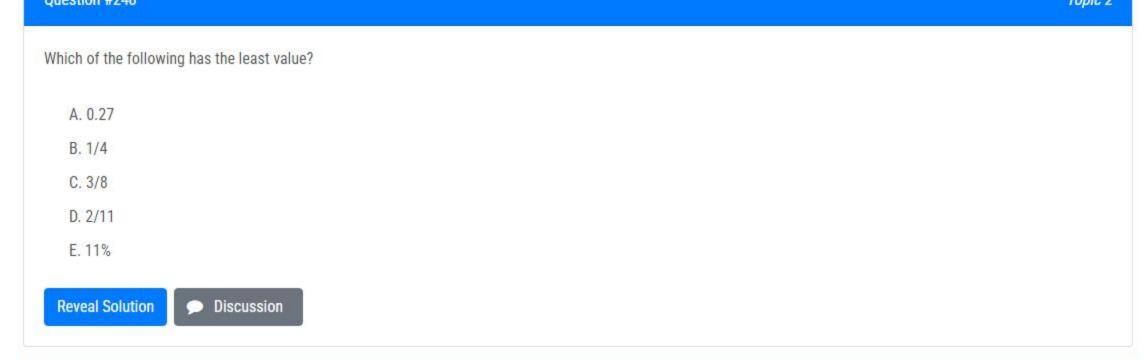


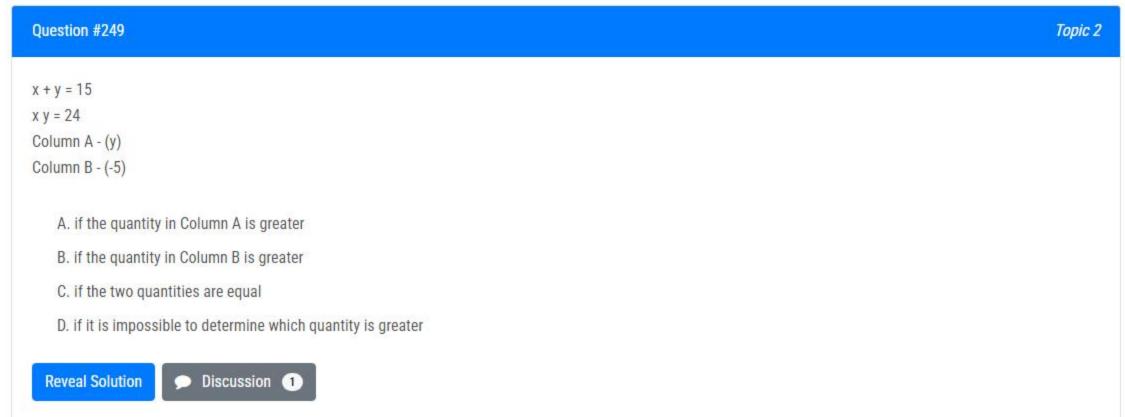




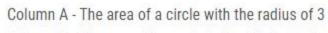


Quarties #248 Topic 2





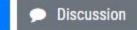
Question #250 Topic 2



Column B - The area of a semi-circle with the radius of 4

- A. if the quantity in Column A is greater
- B. if the quantity in Column B is greater
- C. if the two quantities are equal
- D. if it is impossible to determine which quantity is greater

Reveal Solution



Question #251 Topic 2

Sarah volunteered from 9:27 A.M. until 12:45 P.M. Jan volunteered from 9:15 A.M. until 12:32 P.M.

Column A - The amount of time Sarah volunteered.

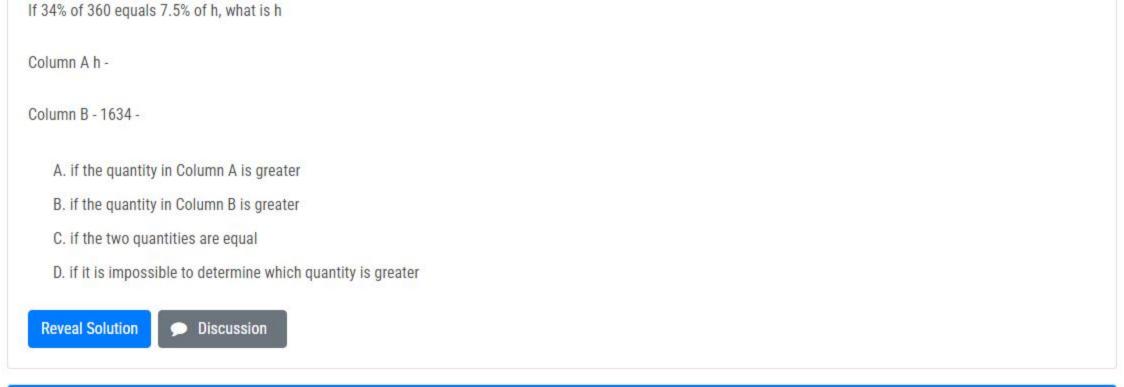
Column B - The amount of time Jan volunteered.

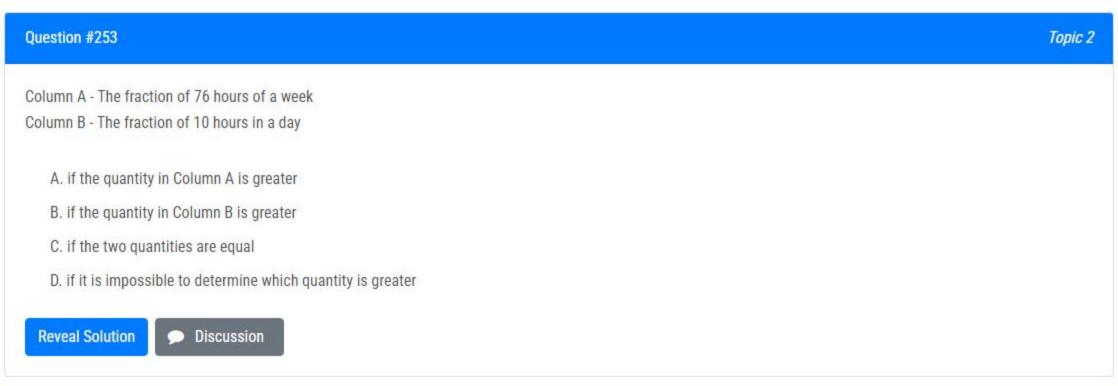
- A. if the quantity in Column A is greater
- B. if the quantity in Column B is greater
- C. if the two quantities are equal
- D. if it is impossible to determine which quantity is greater

Reveal Solution

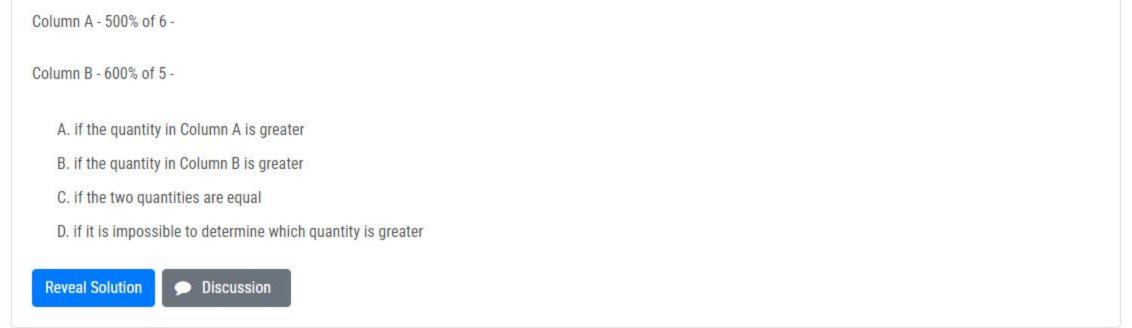


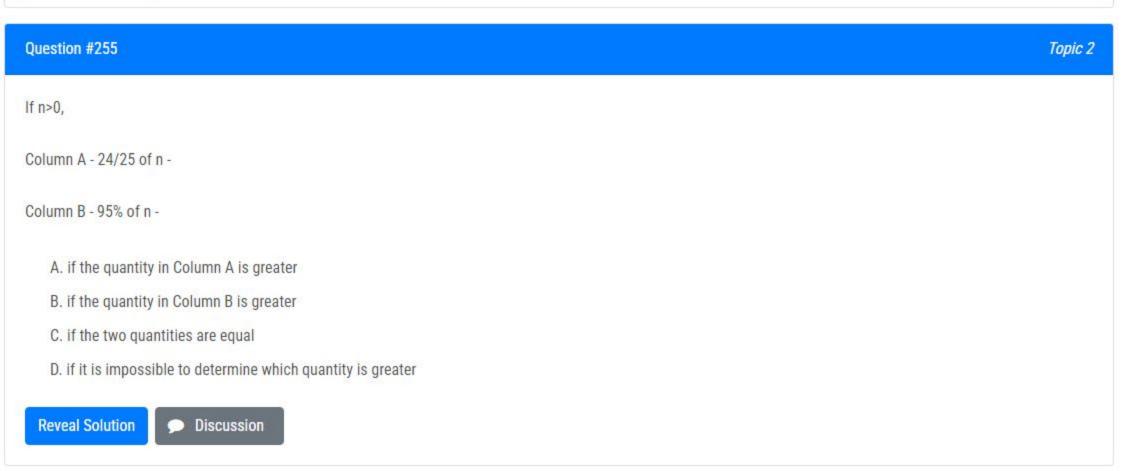
Question #252 Topic 2



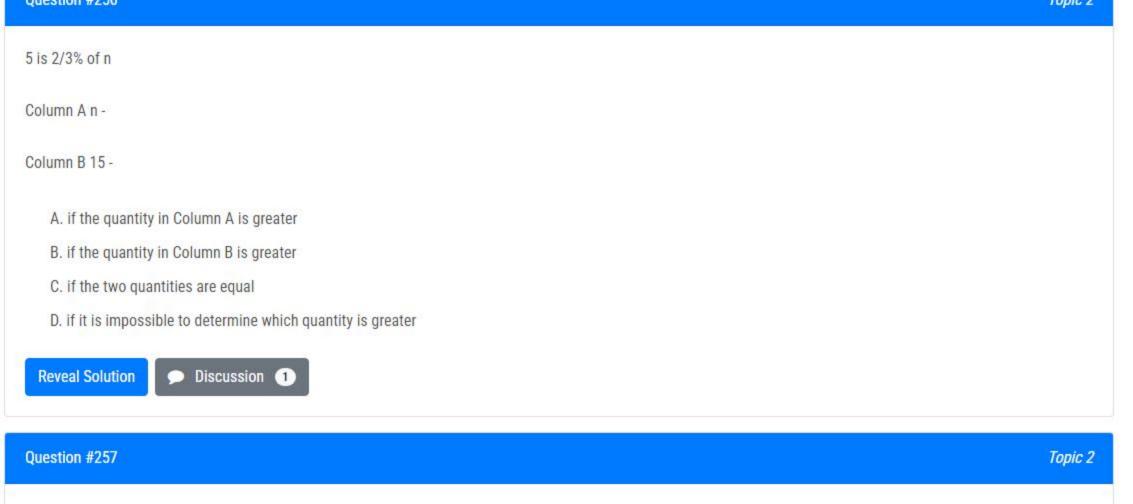


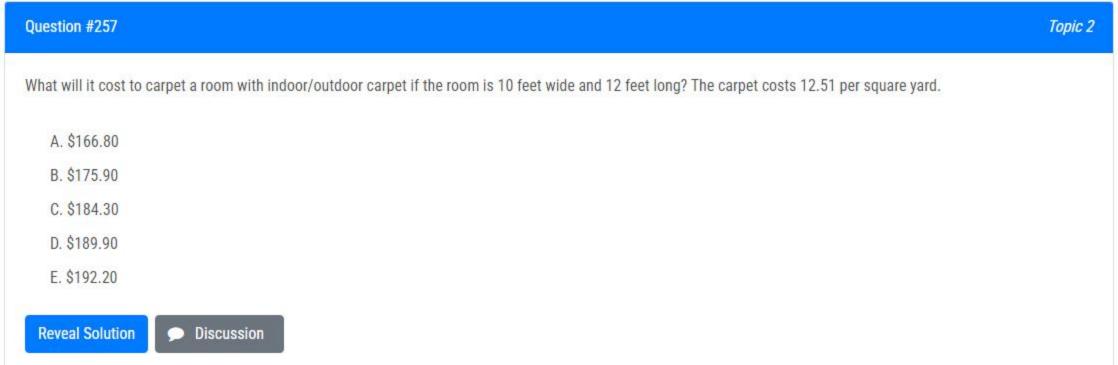
Question #254 Topic 2

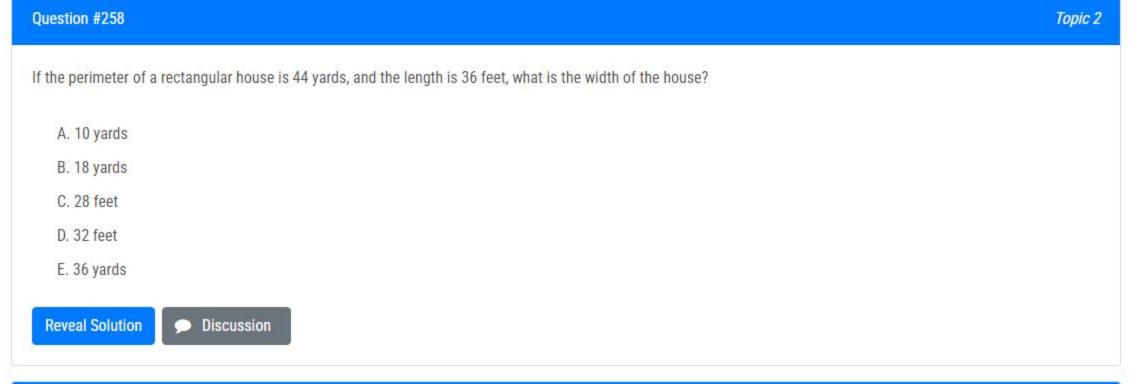


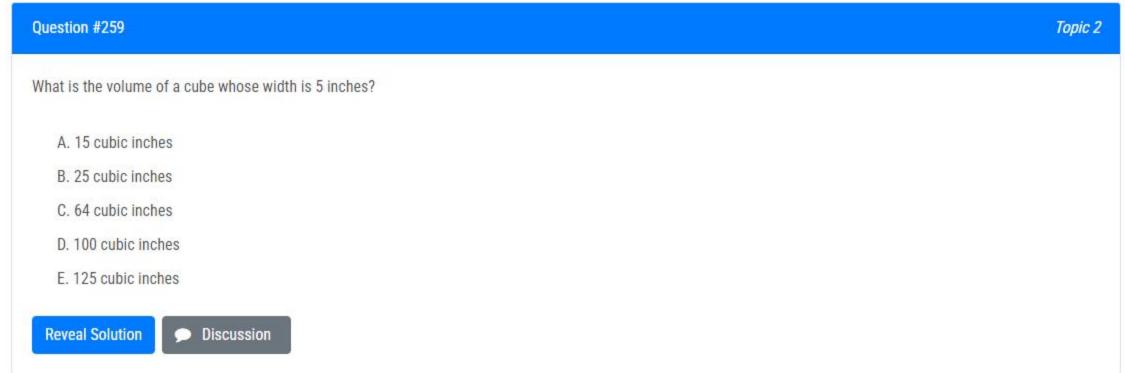


Ougstion #256

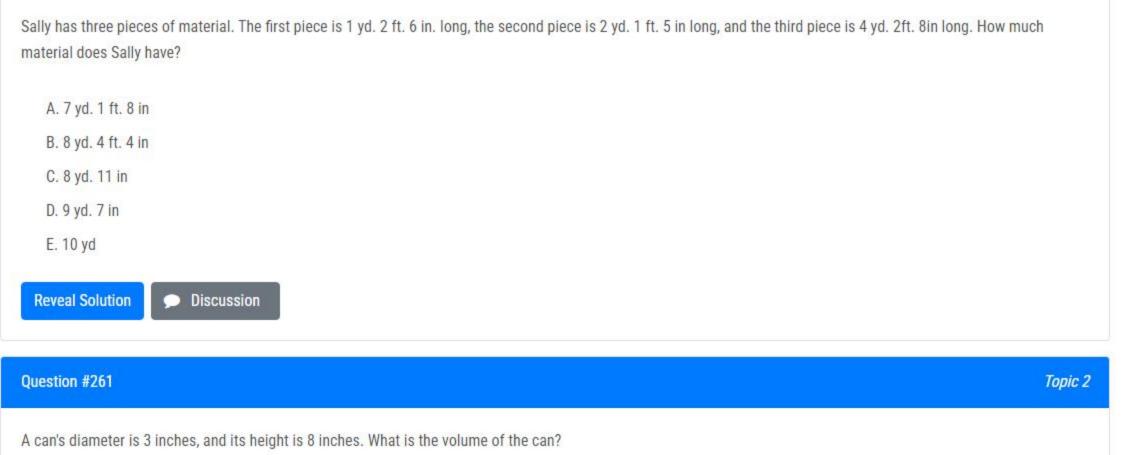


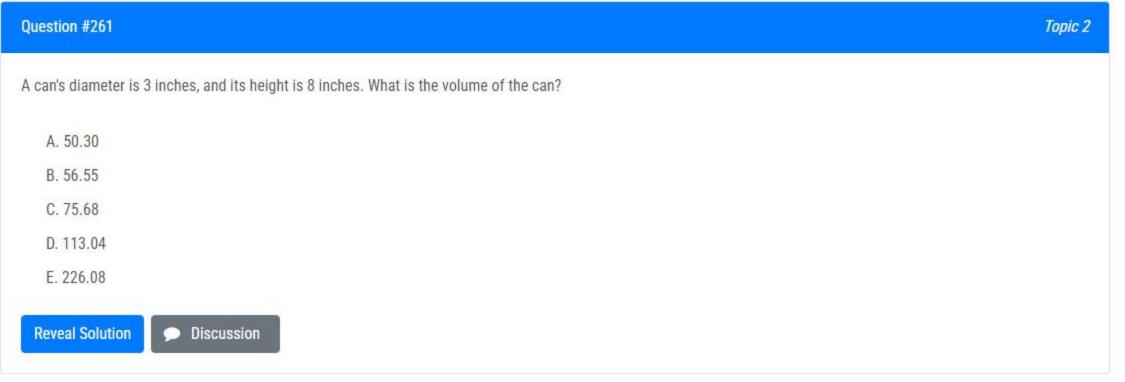






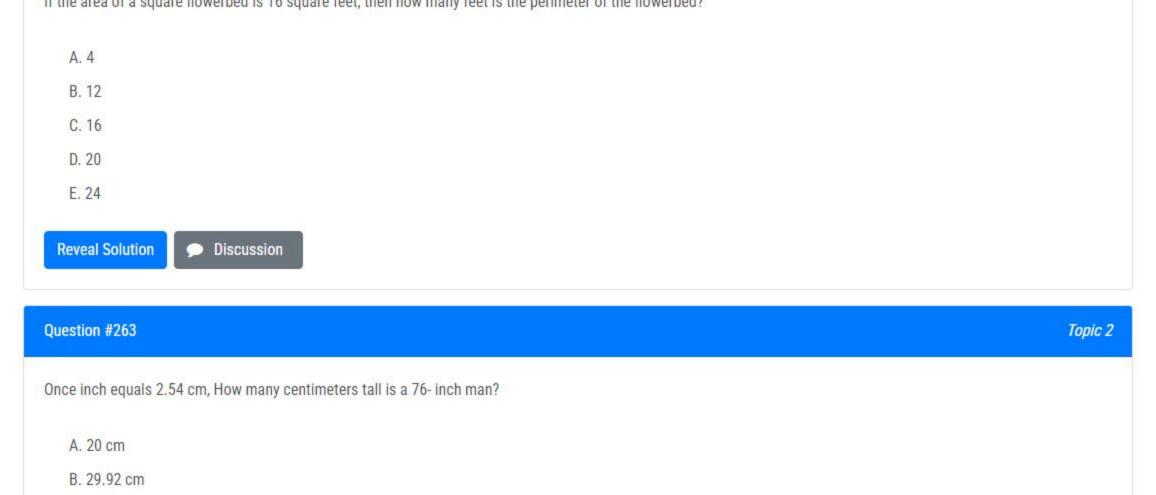
Question #260 Topic 2

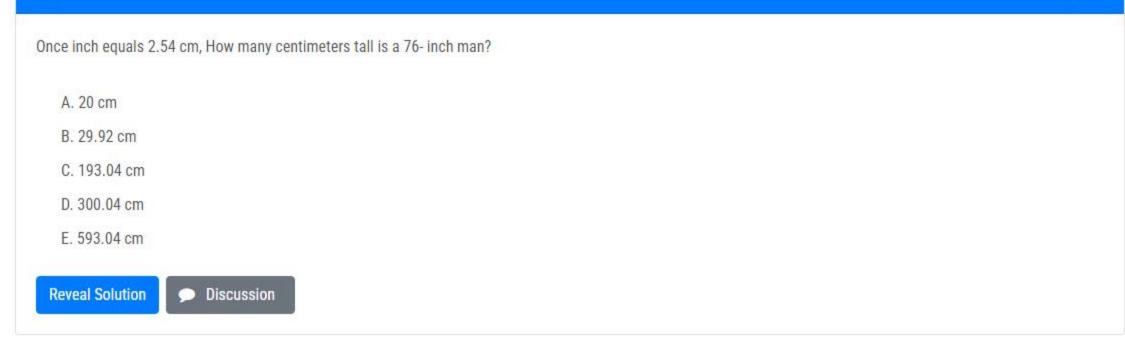




Question #262 Topic 2

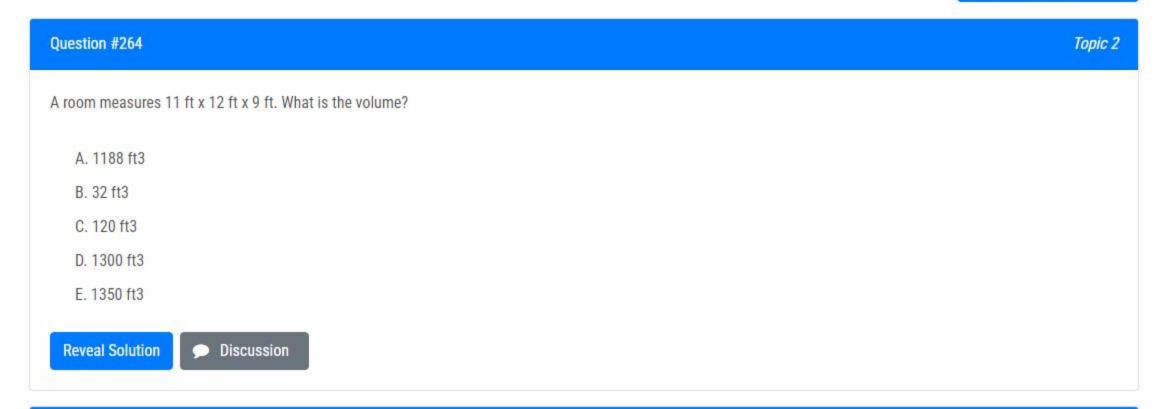
If the erect of a gaver flawerhed is 16 equare fact then how many fact is the perimeter of the flawerhed?

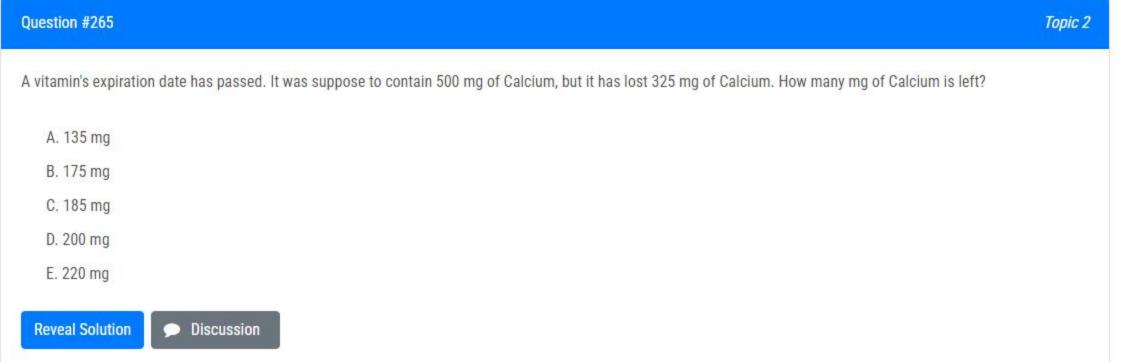




← Previous Questions

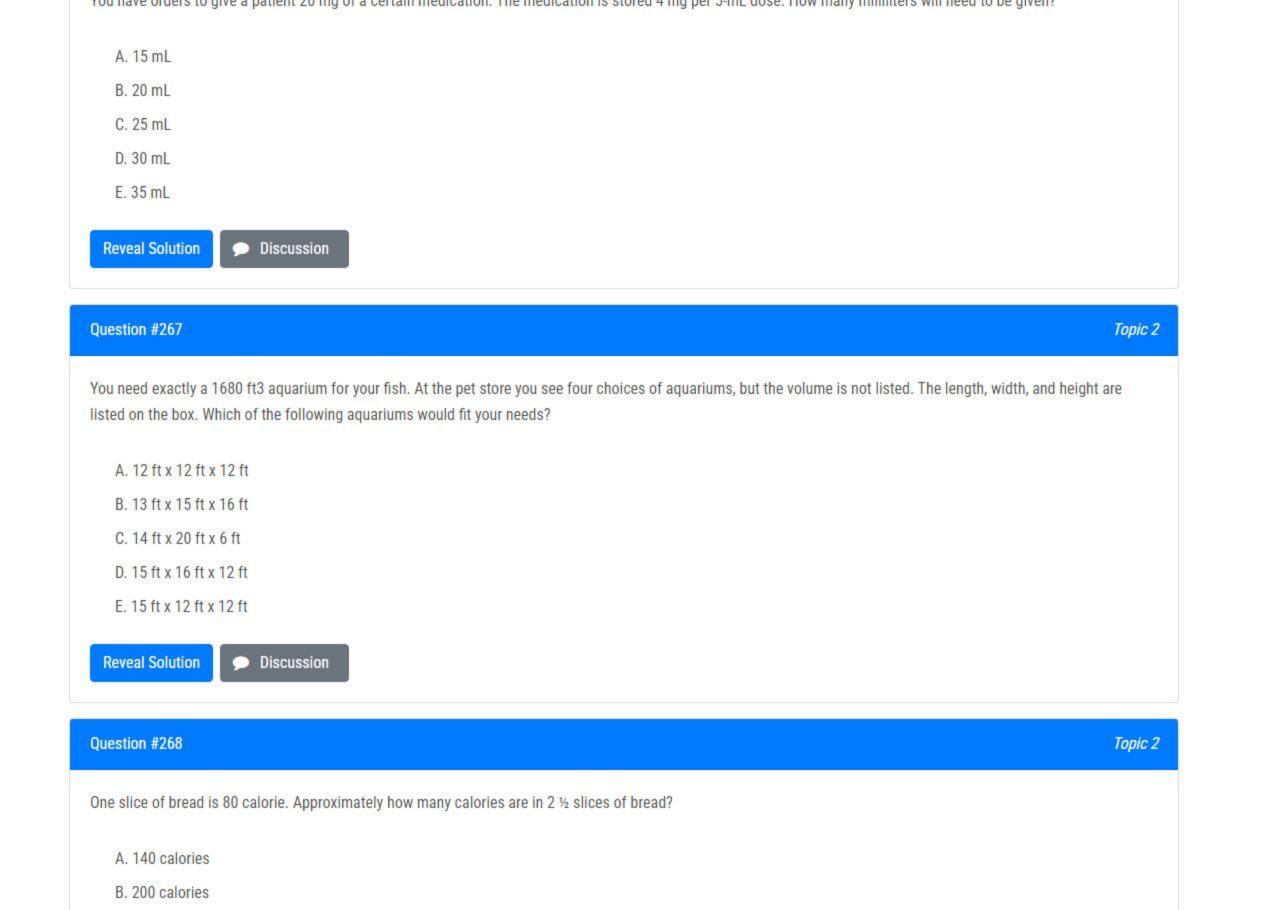
Next Questions →

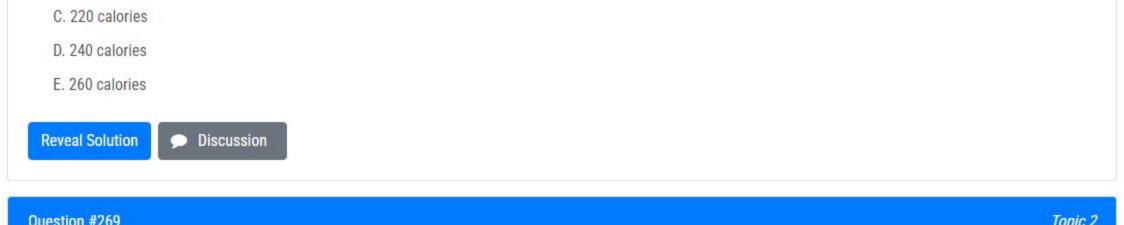


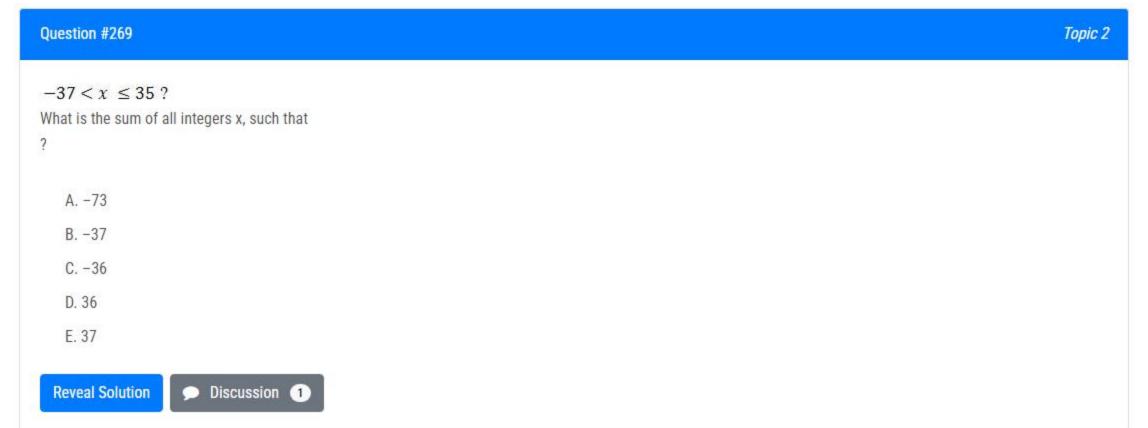


Question #266 Topic 2

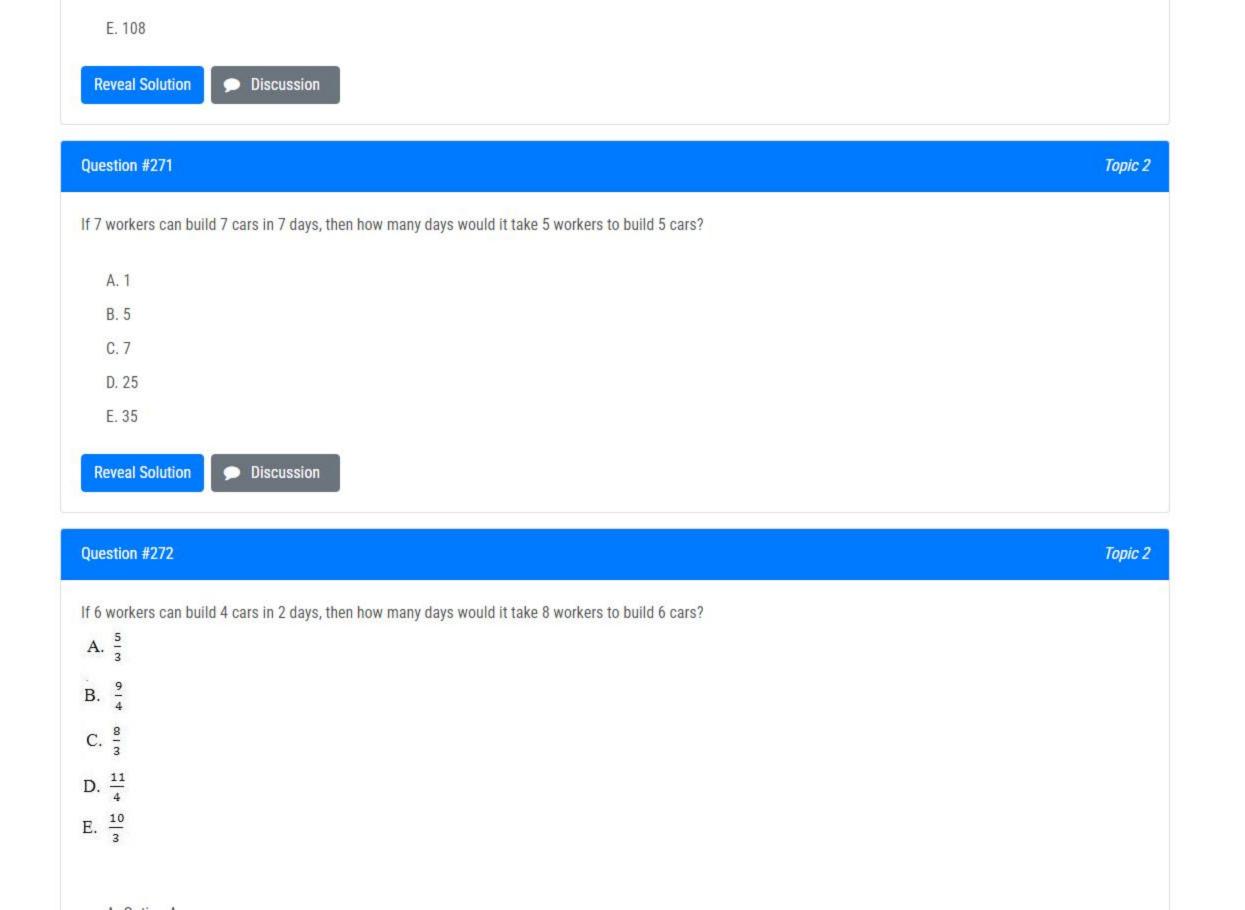
Vou have orders to give a national 20 mg of a cortain medication. The medication is stored 4 mg nor 5 ml. does. How many millilitars will need to be given?

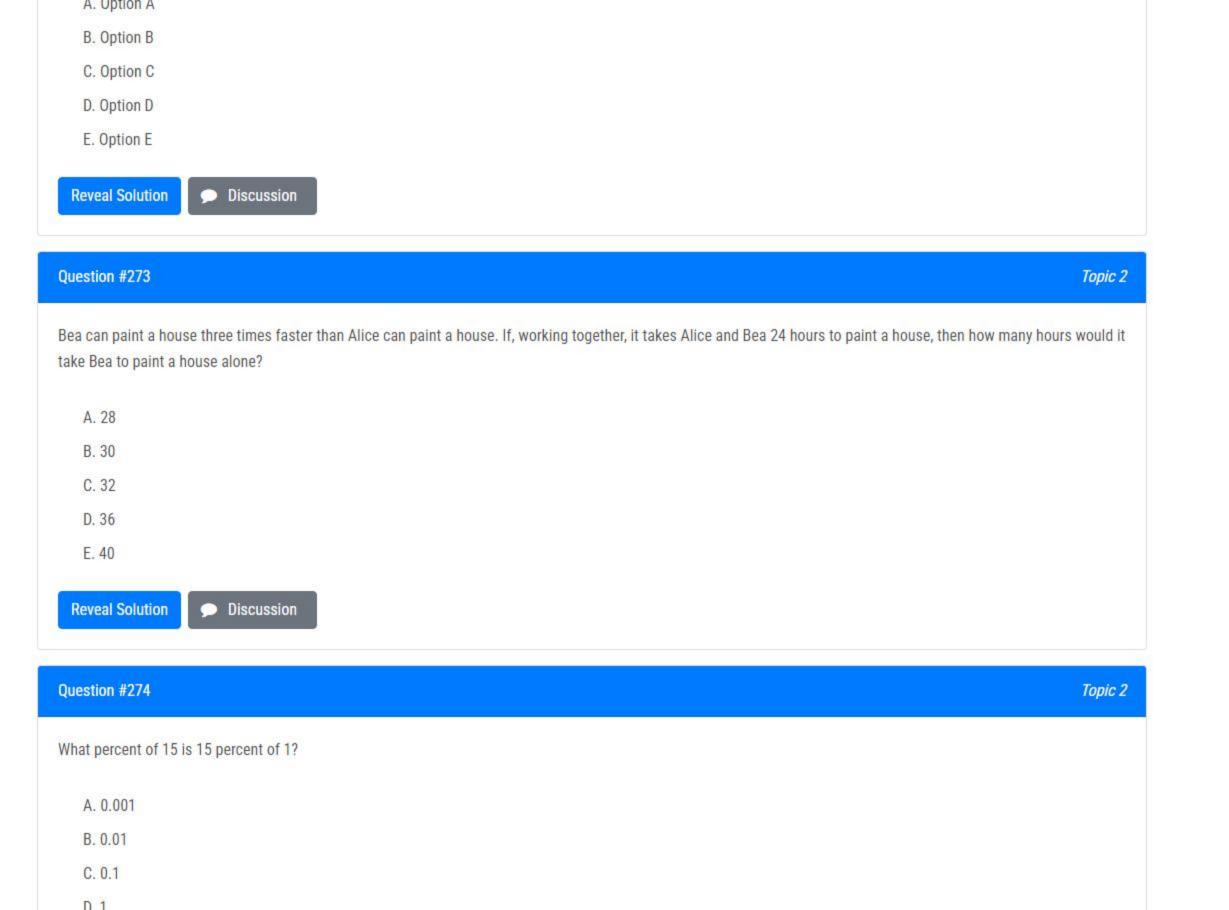














Question #275 Marge has n candies, where n is an integer such that 20 < n < 50. If Marge divides the candies equally among 5 children, she will have 2 candies remaining. If she divides the candies among 6 children, she will have 1 candy remaining. How many candies will remain if she divides the candies among 7 children? A. 0

- C. 2
- D. 3

B. 1

E. 4

Reveal Solution

Discussion

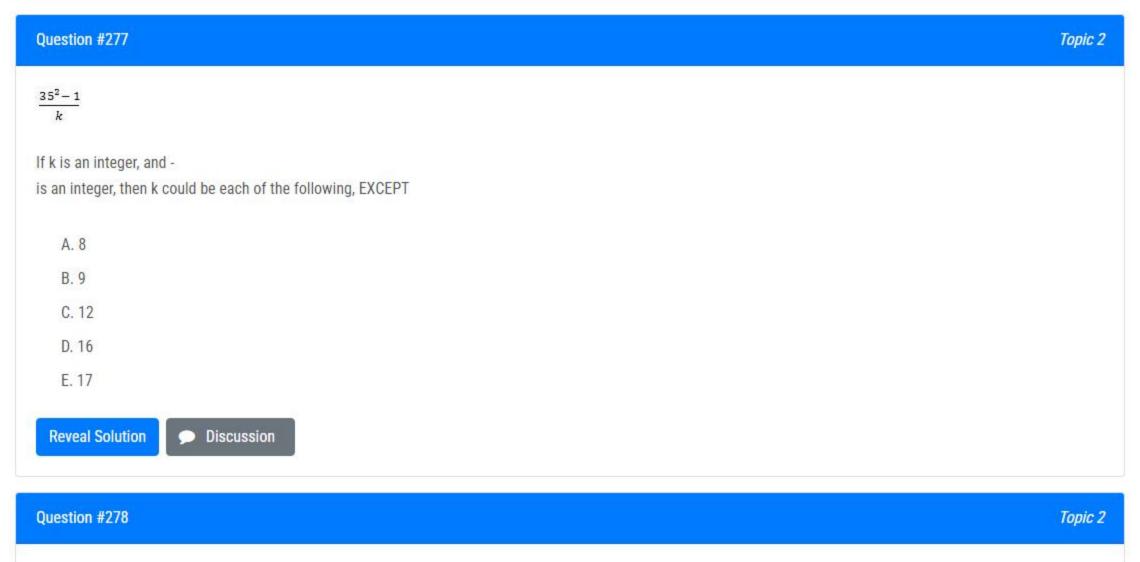
Question #276 Topic 2

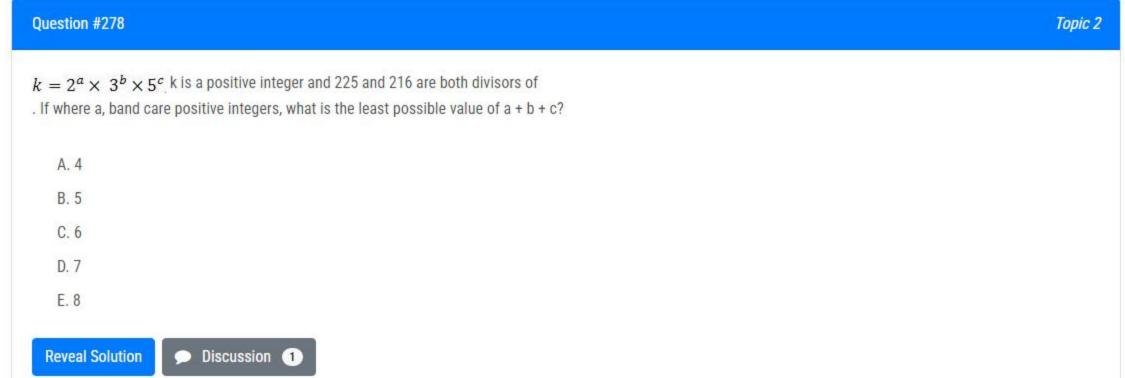
If x is an integer, and k = (x - 1)(x + 2) - (x - 1)(x - 2), then which of the following must be true?

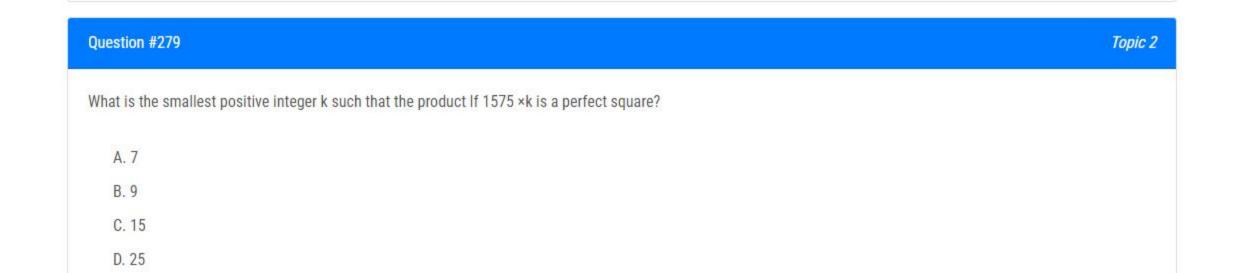
- A. k is odd only when x is odd.
- B. k is odd only when x is even.
- C. k is even only when x is even.
- D. k is even only when x is odd.
- E. None of the above.

Reveal Solution

Discussion







Question #280

Reveal Solution

Discussion

E. 63

Topic 2

 $3^x + 3^x + 3^x =$

A. 9^x

B. 3^{x+1}

C. 9^{3x}

D. 3^{2x} E. 3^{3x}

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Question #281

Topic 2

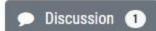
 $5^n \times 4,000,000$

If n is an integer and - what is the least possible value of n?

- A. 7
- B. 8
- C. 9
- D. 10
- E. 11

Reveal Solution

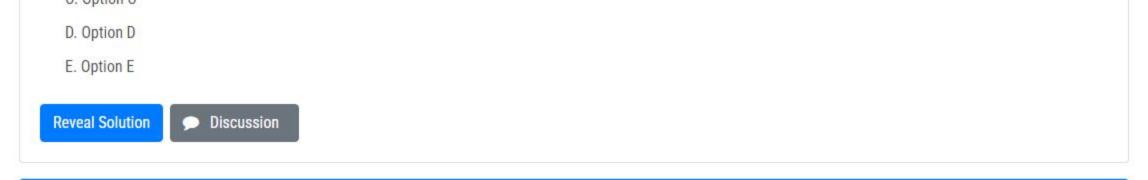
Question #282

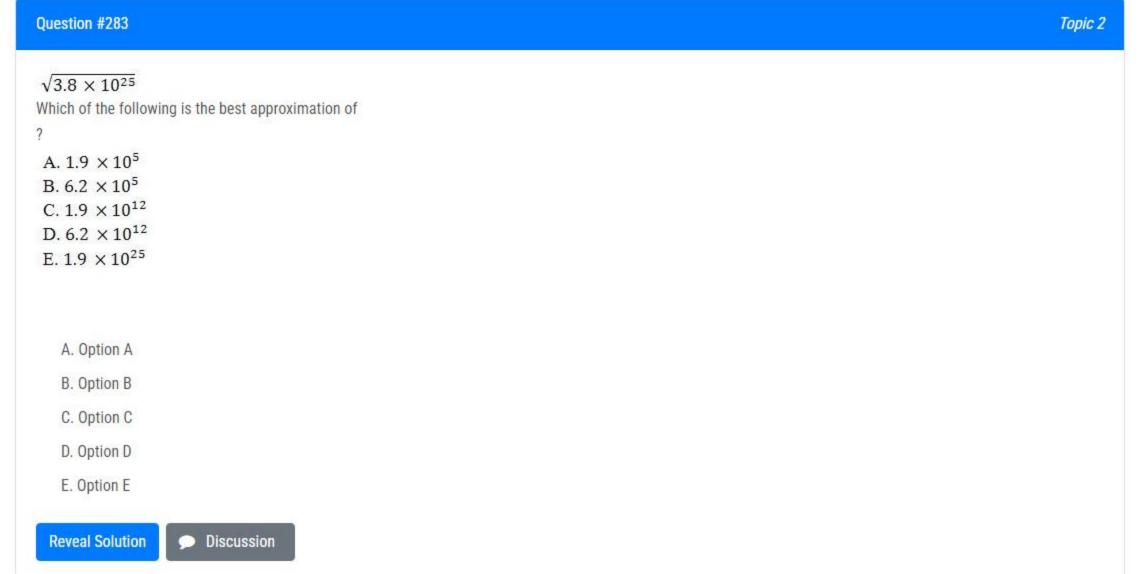


Topic 2

if $\sqrt[6]{x} = 6$, than $\sqrt{x^6} =$

- A. 6
- B. ⁶√6
- C. 6⁶
- D. 6¹⁸
- E. 6³⁶
 - A. Option A
 - B. Option B
- C Ontion C





← Previous Questions

Next Questions →

Question #284 Topic 2

$$\frac{1-\frac{1}{x+1}}{x}$$

Which of the following is equivalent to

for all values of x for which both expressions are defined?

- A. 1
- B. x + 1
- C. $\frac{1}{x}$ D. $\frac{1}{x+1}$ E. $x^2 + x$
- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Reveal Solution

Discussion

Question #285 Topic 2

$$\frac{2x^2(x+3)-2x-6}{x^2+2x-3}$$

Which of the following is equivalent to

for all values of x for which both expressions are defined?

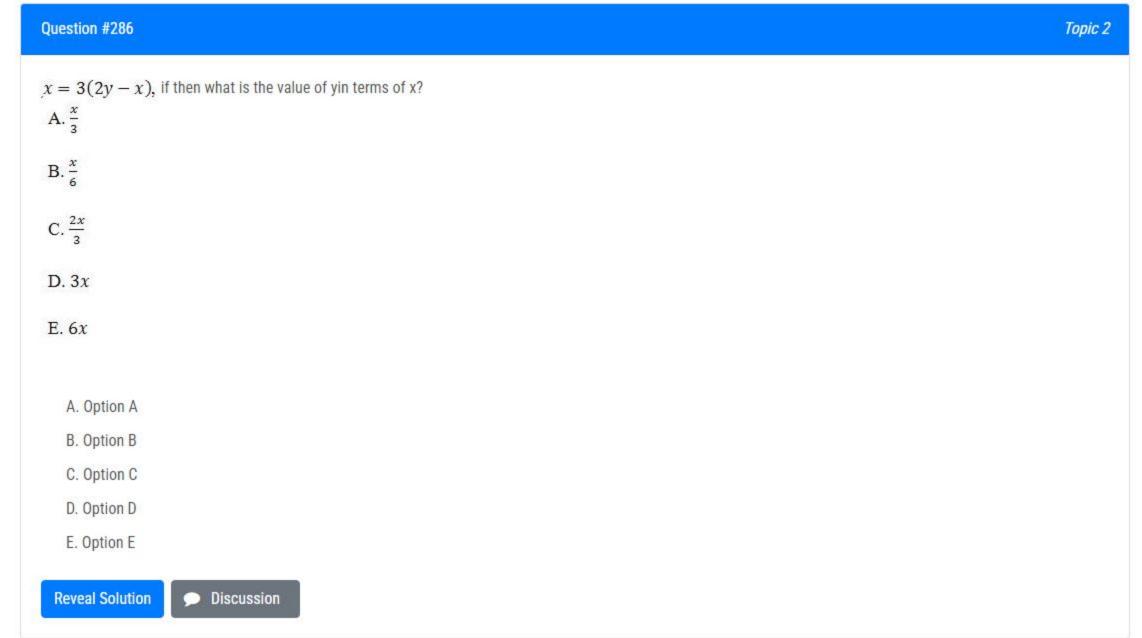
- A. $2x^2 2$
- B. 2x + 2
- C. x + 1
- D. 2x + 6
- E. x 1
- A. Option A
- B. Option B
- C Ontion C

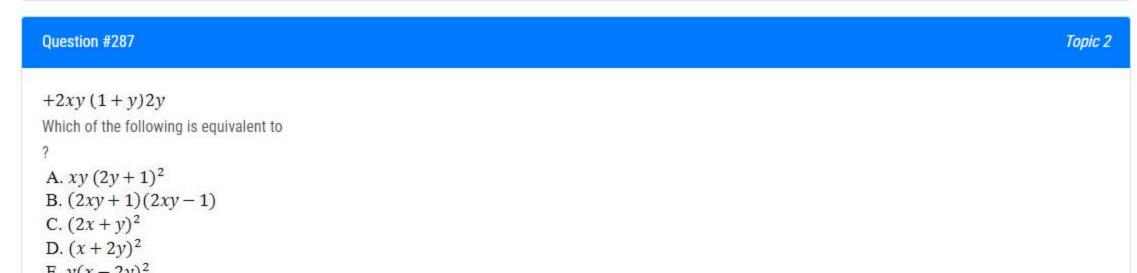
```
D. Option D

E. Option E

Reveal Solution

Discussion
```





E.y(x = 2y)

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Reveal Solution

Discussion

Question #288

Topic 2

 $\frac{x}{y} = \frac{2}{5}$, if then which of the following must be true?

1.
$$y + x = 7$$

2.
$$\frac{x+y}{x} = \frac{7}{2}$$

$$3.\frac{y^2}{x^2} = \frac{25}{4}$$

- A. I only
- B. I and II only
- C. I and III only
- D. II and III only
- E. I, II and III

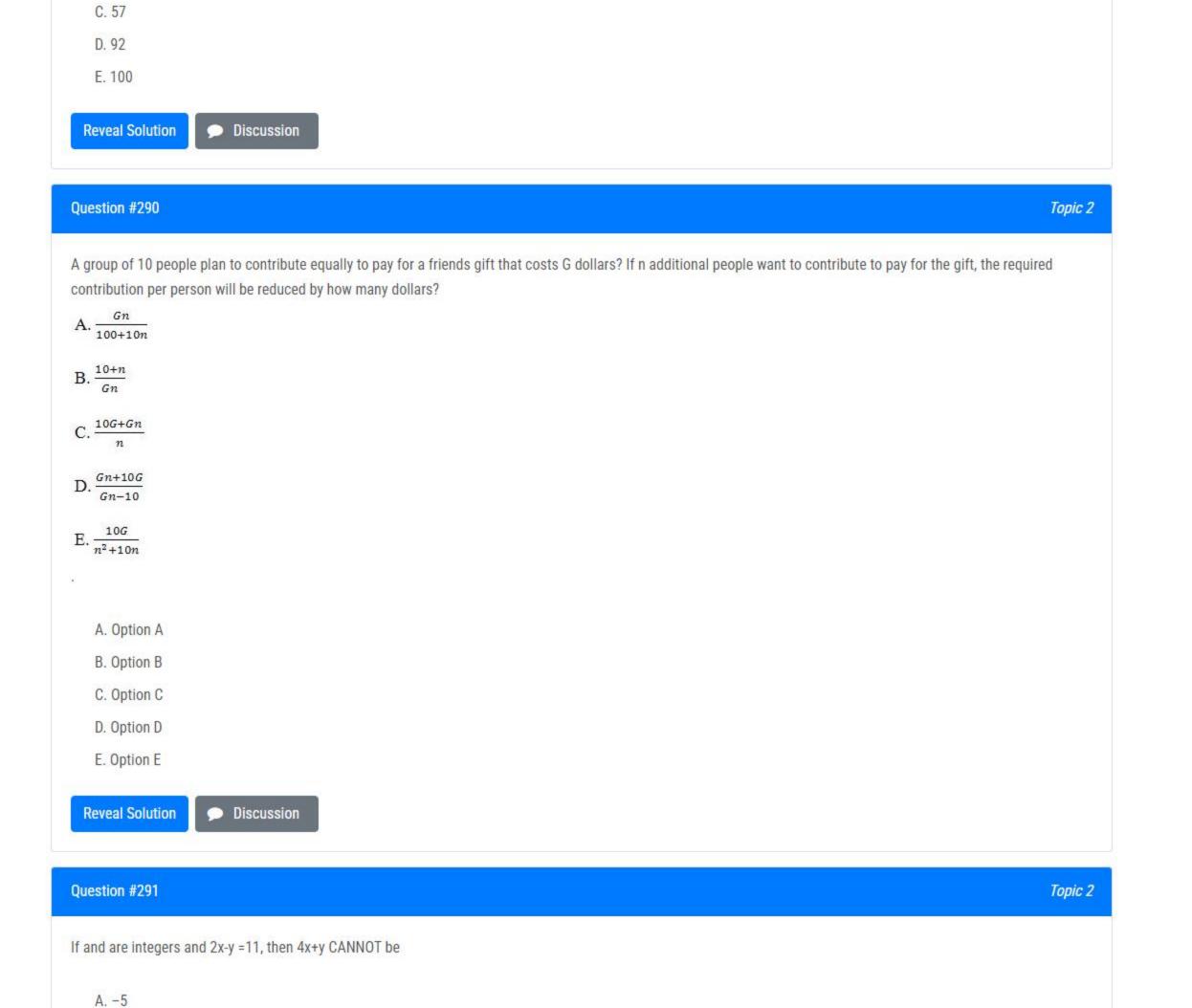
Reveal Solution

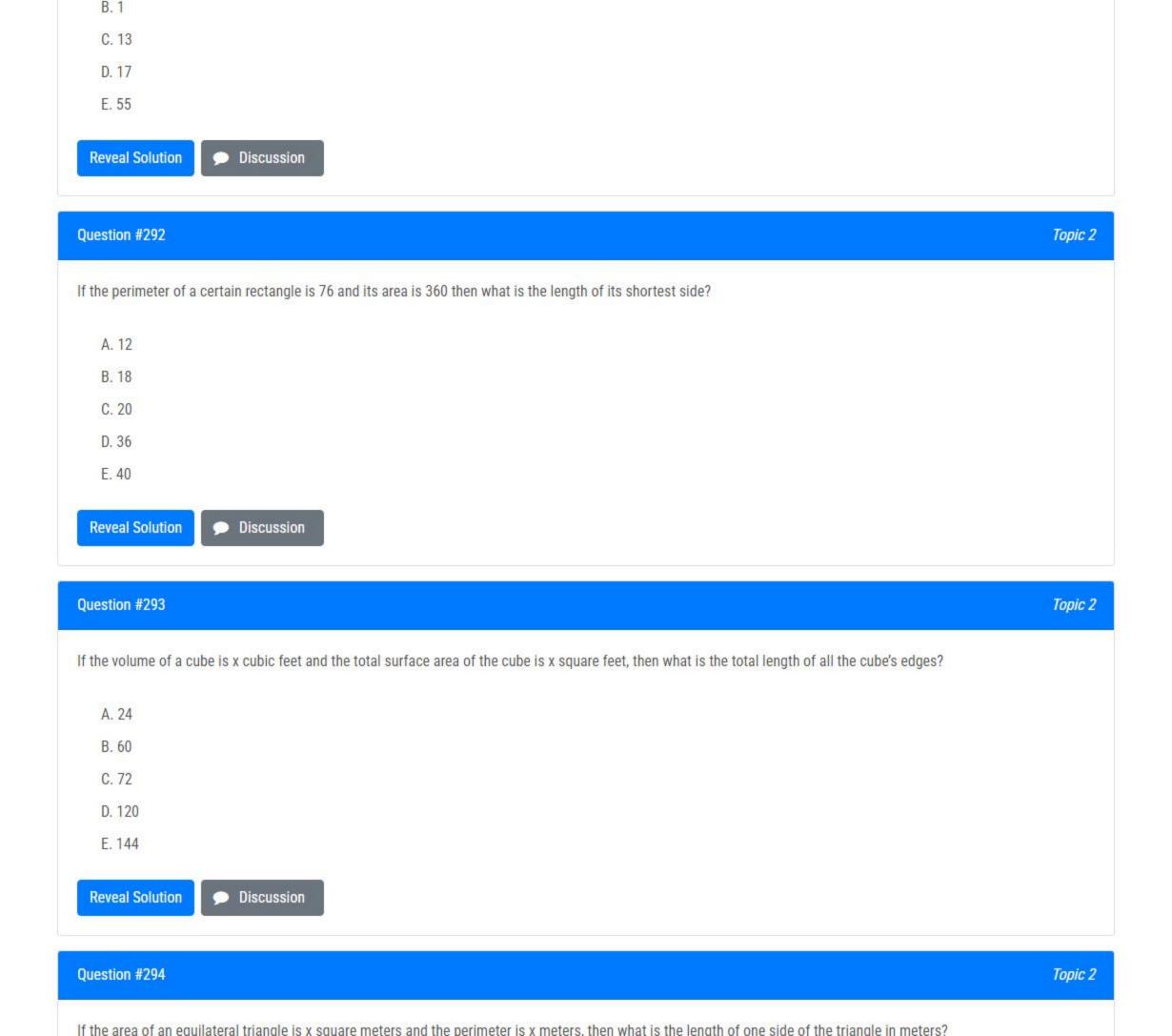
Discussion

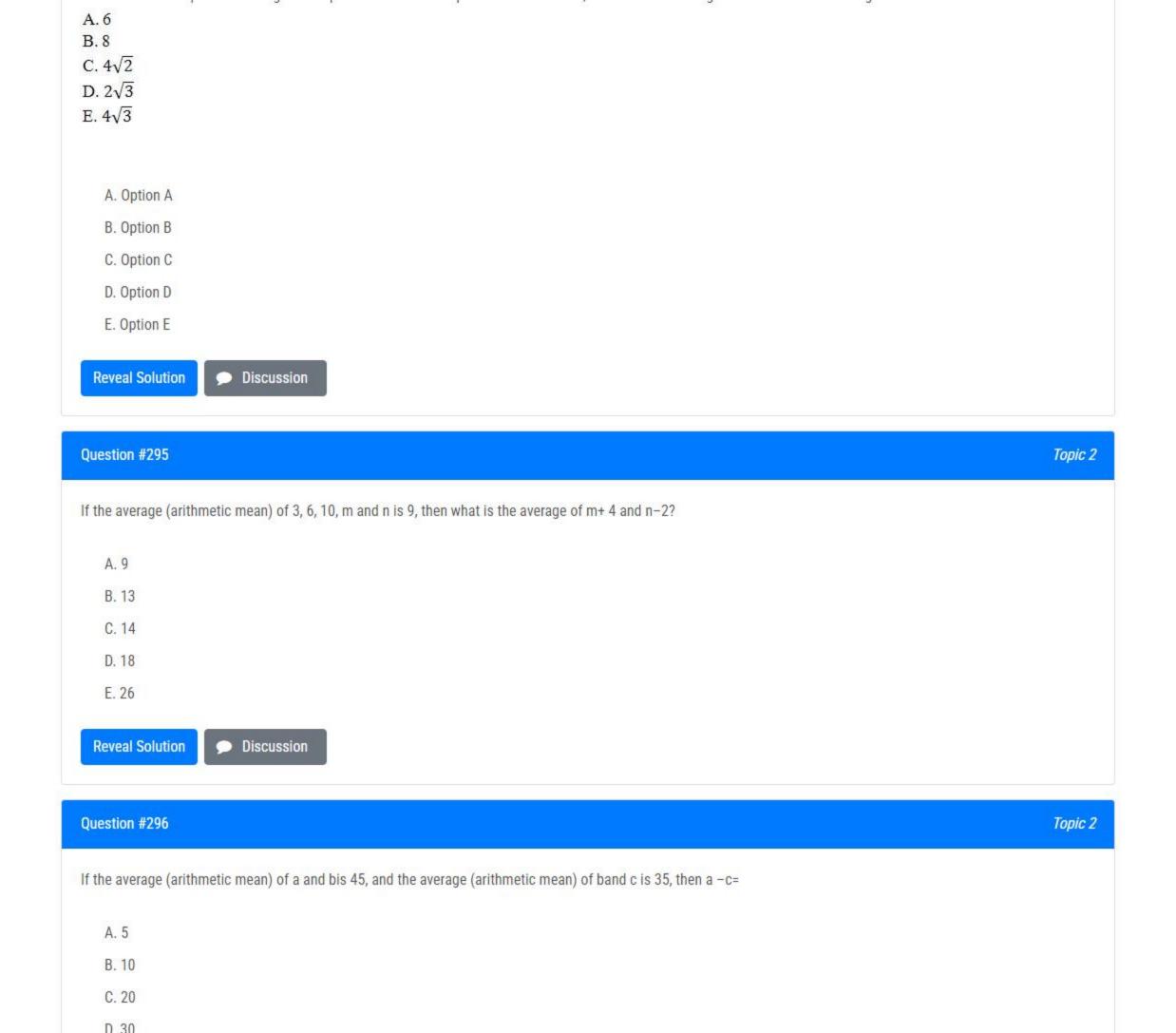
Question #289 Topic 2

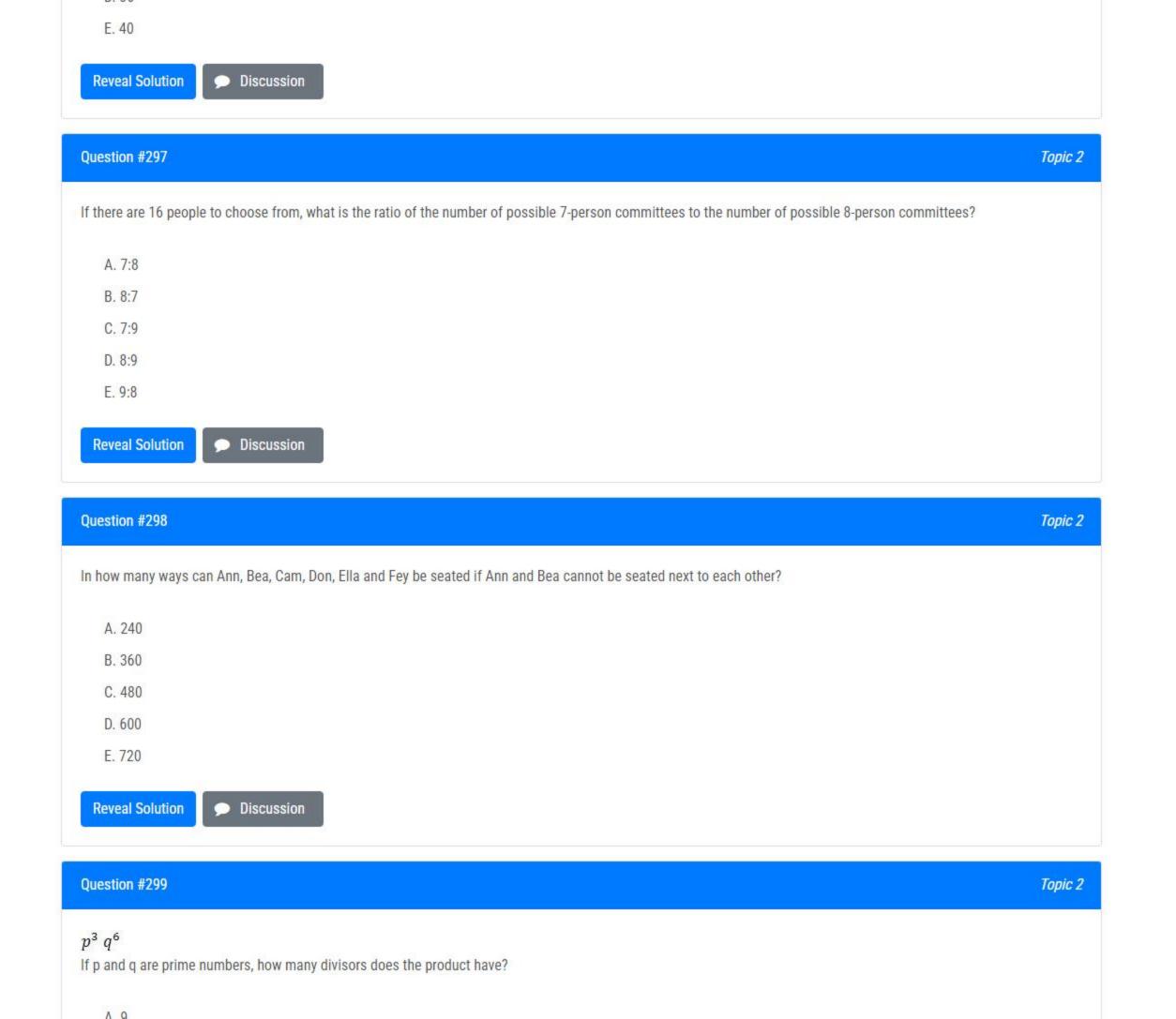
Which of the following could be the sum of three consecutive integers?

- A. 29
- B. 46









B. 12 C. 18 D. 28 E. 36 Discussion **Reveal Solution** Question #300 Topic 2 How many positive integers less than 10,000 are there in which the sum of the digits equals 5? A. 31 B. 51 C. 56 D. 62 E. 93

Question #301 Topic 2

$$(a, b)$$
 and $(a + k, b-3)$

Reveal Solution

$$y = 2x - 5$$

In the coordinate plane, the points are on the line defined by

Discussion

What is the value of?

A.
$$-\frac{5}{2}$$

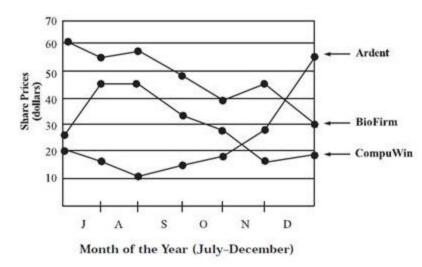
B.
$$-\frac{5}{3}$$

Topic 3 - Data Interpretation

Question #1 Topic 3

Refer to the following chart -

SHARE PRICES OF COMMON STOCK (ARDENT, BIOFIRM, AND COMPUWIN CORPORATIONS)



During which of the following months was there a negative aggregate change in the share price of stock in all three companies?

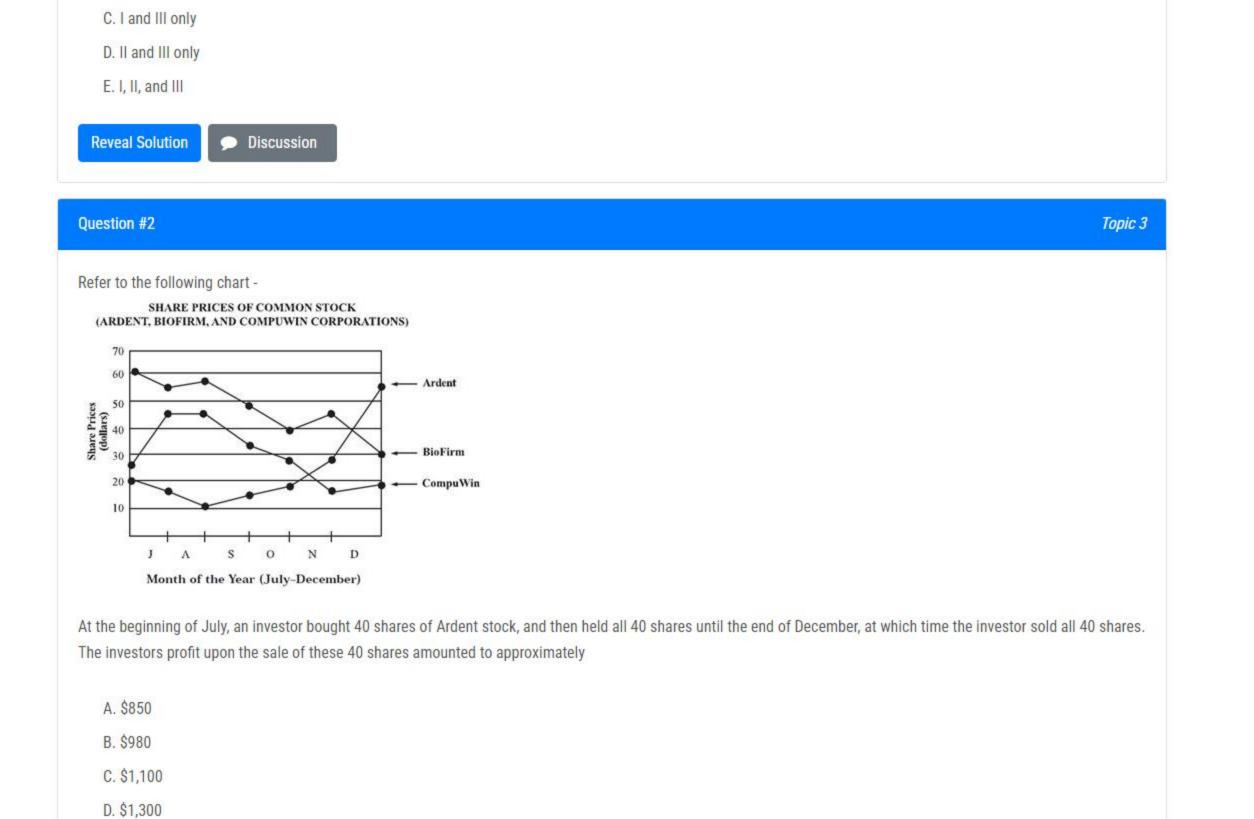
I. July -

II. September -

III. October -

A. Il only

B. I and II only



Reveal Solution

E. \$1,400

Question #3 Topic 3

Worldwide Sales of Three XYZ Motor Company Models 2004 –2005 Model Year

Purchaser Category

	Automobile Model		
	Basic	Standard	Deluxe
U.S. institutions	3.6	8.5	1.9
U.S. consumers	7.5	11.4	2.0
Foreign institutions	1.7	4.9	2.2
Foreign consumers	1.0	5.1	0.8

Note: All numbers are in thousands.

Based on the table, which of the following does NOT describe sales of at least 10,000 automobiles?

- A. All U.S. institution sales of the standard and deluxe models
- B. All consumer sales of the basic and deluxe model
- C. All foreign institution sales
- D. All foreign sales of the standard model
- E. All institution sales of the standard model

Reveal Solution

Discussion

Question #4 Topic 3

Worldwide Sales of Three XYZ Motor Company Models 2004 –2005 Model Year

Purchaser Category

	Automobile Model		
	Basic	Standard	Deluxe
U.S. institutions	3.6	8.5	1.9
U.S. consumers	7.5	11.4	2.0
Foreign institutions	1.7	4.9	2.2
Foreign consumers	1.0	5.1	0.8

Note: All numbers are in thousands.

Assume that total revenue from sales of the standard model exceeded total revenue from sales of the basic model by \$41 million. The average sales price of a standard model exceeded the average price of a basic model by approximately

- A. \$2,500
- B. \$3,000
- C. \$3,600
- D. \$4,400
- E. It cannot be determined from the information given.

Reveal Solution

Refer to the following graph.

ANERAGE NUMBER OF HOURS PER WEEK
SPENT WATCHING TELEVISION

AGE GROUP

Based solely on the information in the graph, approximately how many hours per week does the average 27-year old spend watching news on television?

A. 2

B. 5

C. 8

D. 10

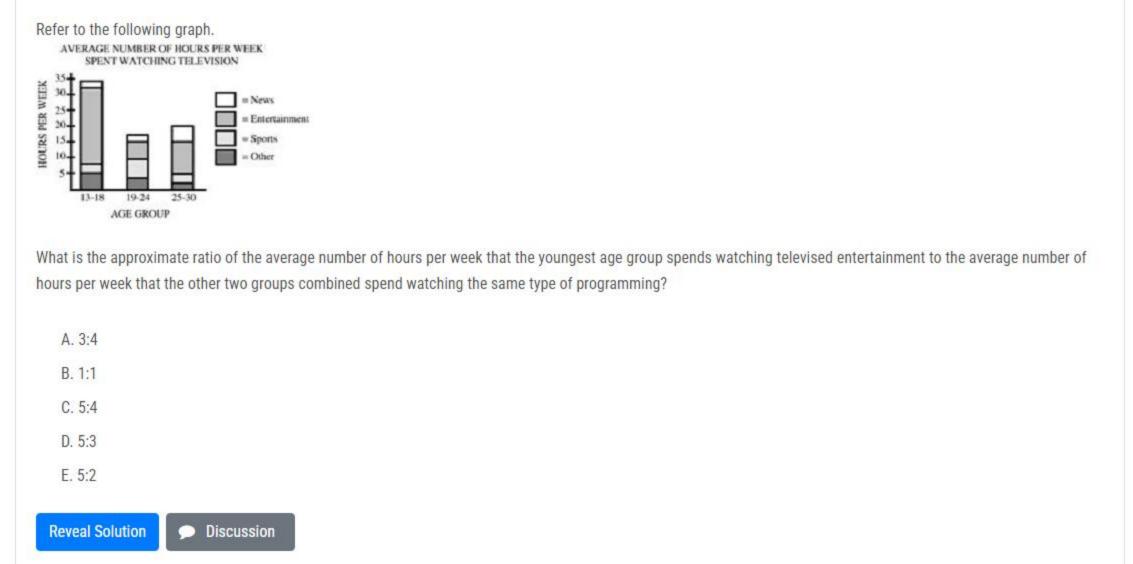
E. 20

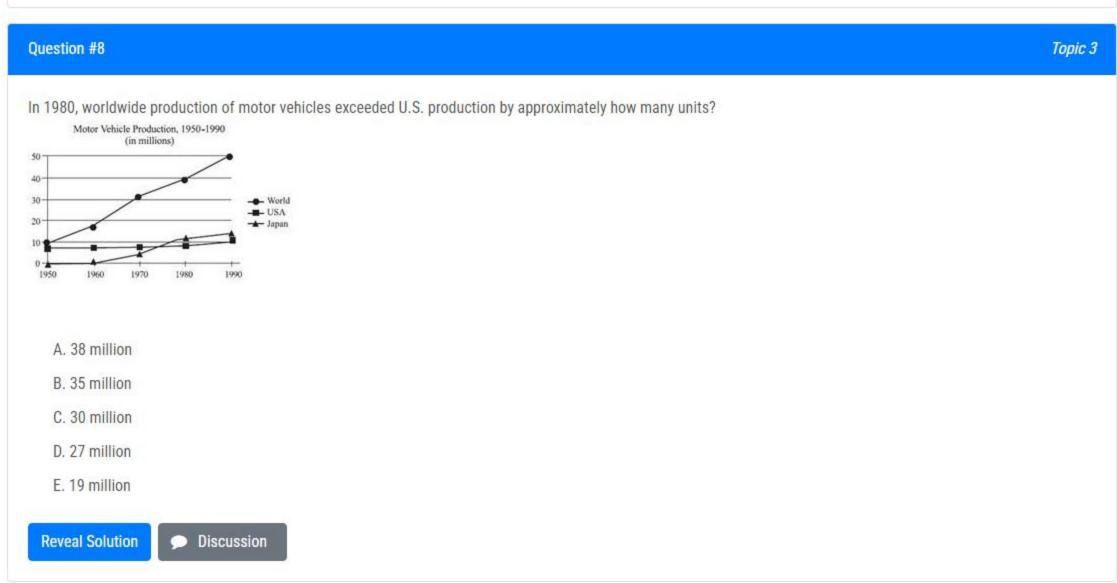
Reveal Solution

Discussion

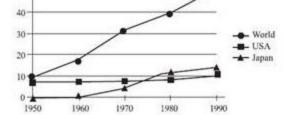
Question #6 Topic 3 Refer to the following graph. AVERAGE NUMBER OF HOURS PER WEEK SPENT WATCHING TELEVISION = Entertainment = Sports = Other AGE GROUP The age group that spends the greatest number of hours per week watching sports on television spends approximately what percent of its total television viewing time watching programming other than news, entertainment, or sports? A. 4 B. 10 C. 16 D. 22 E. 33 **Reveal Solution** Discussion

Question #7 Topic 3









- A. As a percentage of world production, U.S. production neither increased nor decreased.
- B. Production outside the countries of U.S. and Japan increased, then leveled off, then increased again.
- C. World production increased steadily while U.S. production declined.
- D. As a percentage of world production, Japan production neither increased nor decreased.
- E. Japan production increased steadily while U.S. production declined.

Reveal Solution

Discussion

Question #10 Topic 3

Refer to the following chart.

MARKETING, LEGAL, AND PRODUCTION EXPENSES FOR XYZ COMPANY (2002–2006) ■ Marketing ■ Legal ☐ Production

Among the following choices, the difference between marketing expenses and production expenses was most nearly the same for which two years?

- A. 2002 and 2003
- B. 2004 and 2006
- C. 2003 and 2005
- D. 2002 and 2004
- E. 2003 and 2006

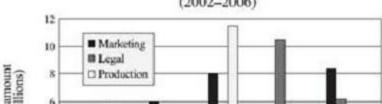
Reveal Solution

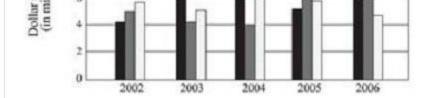
Discussion

Question #11 Topic 3

Refer to the following chart.

MARKETING, LEGAL, AND PRODUCTION EXPENSES FOR XYZ COMPANY (2002–2006)

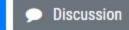




With respect to the two years during which combined legal and production expenses were most nearly the same, average marketing expenses per year were approximately

- A. \$5.5 million
- B. \$6.2 million
- C. \$6.8 million
- D. \$7.2 million
- E. \$8.0 million

Reveal Solution



Question #12 Topic 3

Refer to the following chart.

Shipping Rates for Express Parcel Service, Inc.

	Shipment Method		
	Ground	Air	Express
1 pound or less	\$1.50	\$2.25	\$6.75
Each additional pound (or fraction) through 10 pounds	\$.40	\$.60	\$1.15
Each additional pound (or fraction), 11 or more pounds	\$.25	\$.40	\$.75

How much would it cost to ship a 28-pound parcel by ground delivery?

- A. \$8.80
- B. \$9.60
- C. \$9.75
- D. \$10.40
- E. \$12.05

Reveal Solution



Question #13 Topic 3

Refer to the following chart.

Shipping Rates for Express Parcel Service, Inc.

Shipment Method		
Ground	Air	Express

1 pound or less	\$1.50	\$2.25	\$6.75
Each additional pound (or fraction) through 10 pounds	\$.40	\$.60	\$1.15
Each additional pound (or fraction), 11 or more pounds	\$.25	\$.40	\$.75

How much more would it cost to ship a parcel weighing 2.4 pounds by express delivery than by air delivery?

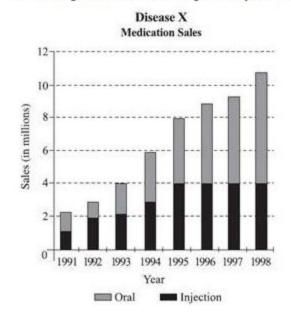
- A. \$2.80
- B. \$3.05
- C. \$3.60
- D. \$4.75
- E. \$5.60

Reveal Solution

Discussion 1

Question #14 Topic 3

According to the chart, during which year were annual sales of oral medication for disease X less than during the previous year?



- A. 1992
- B. 1994
- C. 1995
- D. 1996
- E. 1997

Reveal Solution

Discussion

Question #15 Topic 3

Refer to the following table.

The month of June contains 30 days. During June how much more electricity was used at house C per day than at house A per day on average?

ELECTRICITY USAGE AT FOUR HOUSES: A, B, C, and D (Month of June)				
House	Interior Area (Square Area)	Interior Volume (Cubic Feet)	Electricity Usage in Kilowatt Hours (kWh)	
A	1,300	10,400	960	
В	1,500	12,000	1044	
С	2,000	16,200	1,125	
D	2,300	18,400	1,205	

A. 2.7 kWh

B. 2.8 kWh

C. 4.0 kWh

D. 4.8 kWh

E. 5.5 kWh

Reveal Solution

Discussion

Question #16 Topic 3

During June, which of the four houses used between 0.5 and 0.7 kWh of electricity per square foot of interior area?

ELECTRICITY USAGE AT FOUR HOUSES: A, B, C, and D (Month of June)				
House	Interior Area (Square Area)	Interior Volume (Cubic Feet)	Electricity Usage in Kilowatt Hours (kWh)	
A	1,300	10,400	960	
В	1,500	12,000	1044	
С	2,000	16,200	1,125	
D	2,300	18,400	1,205	

I. House A -

II. House B -

III. House C -

IV. House D -

A. II and III only

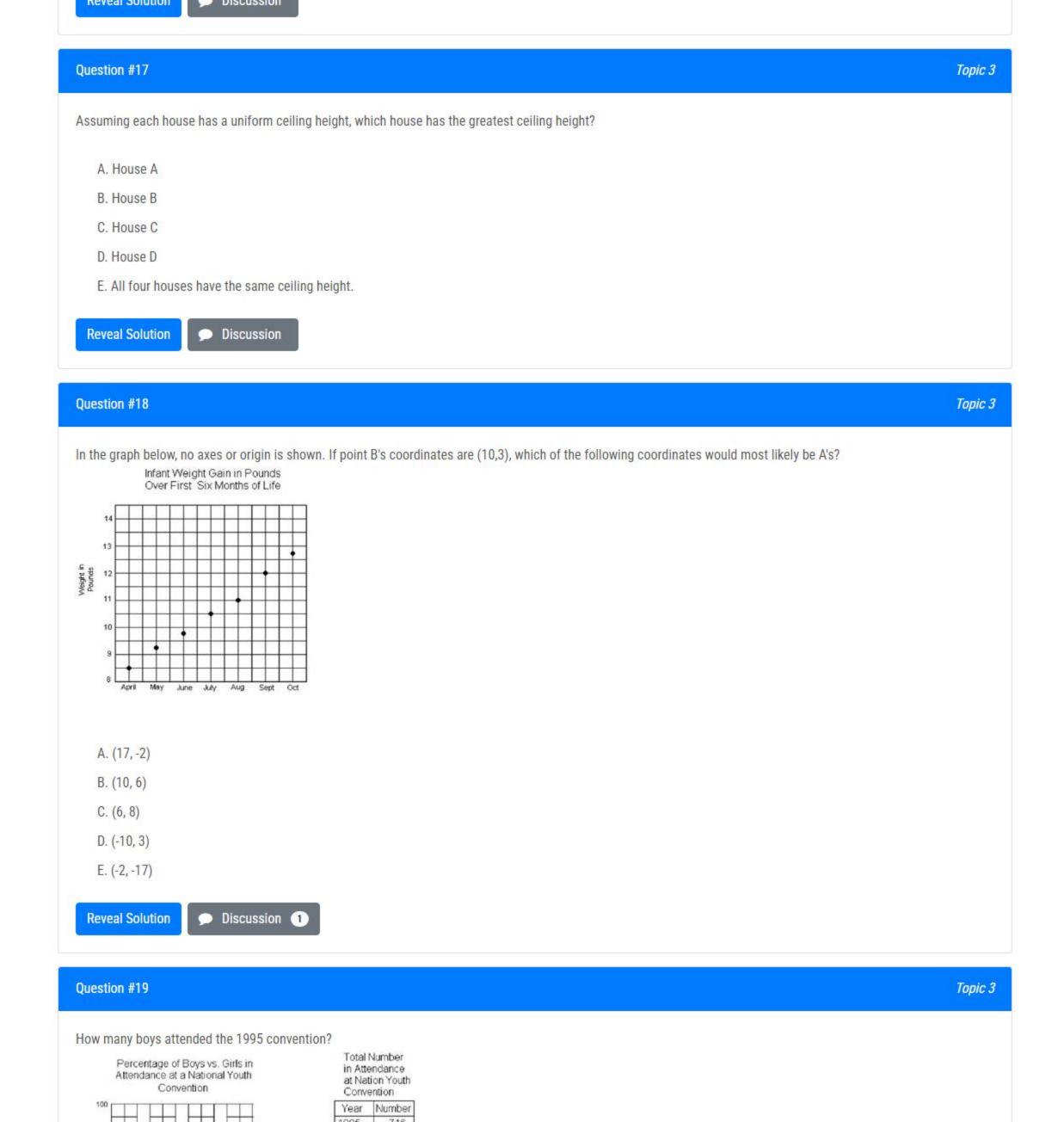
B. II and IV only

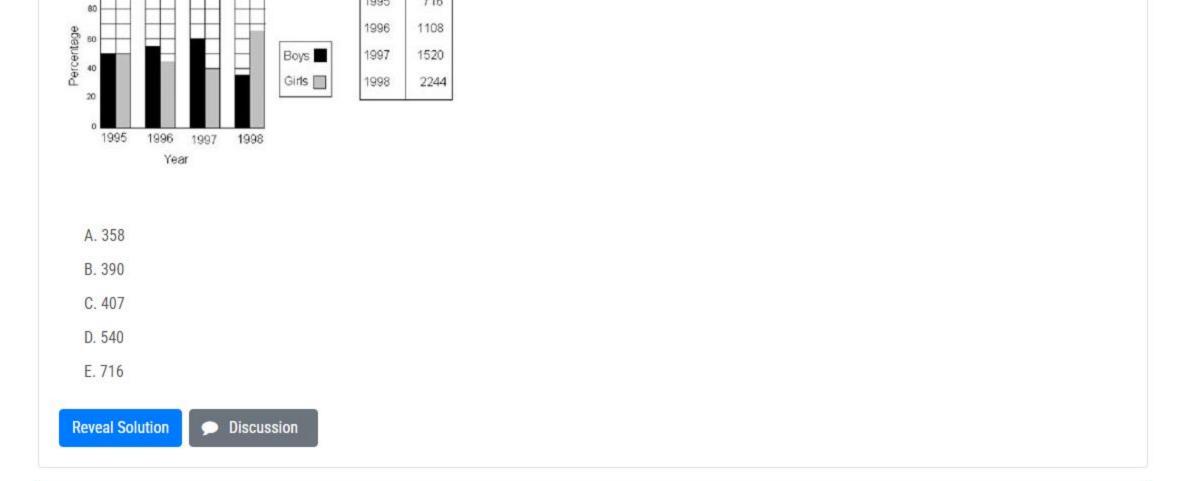
C. I, II, and III only

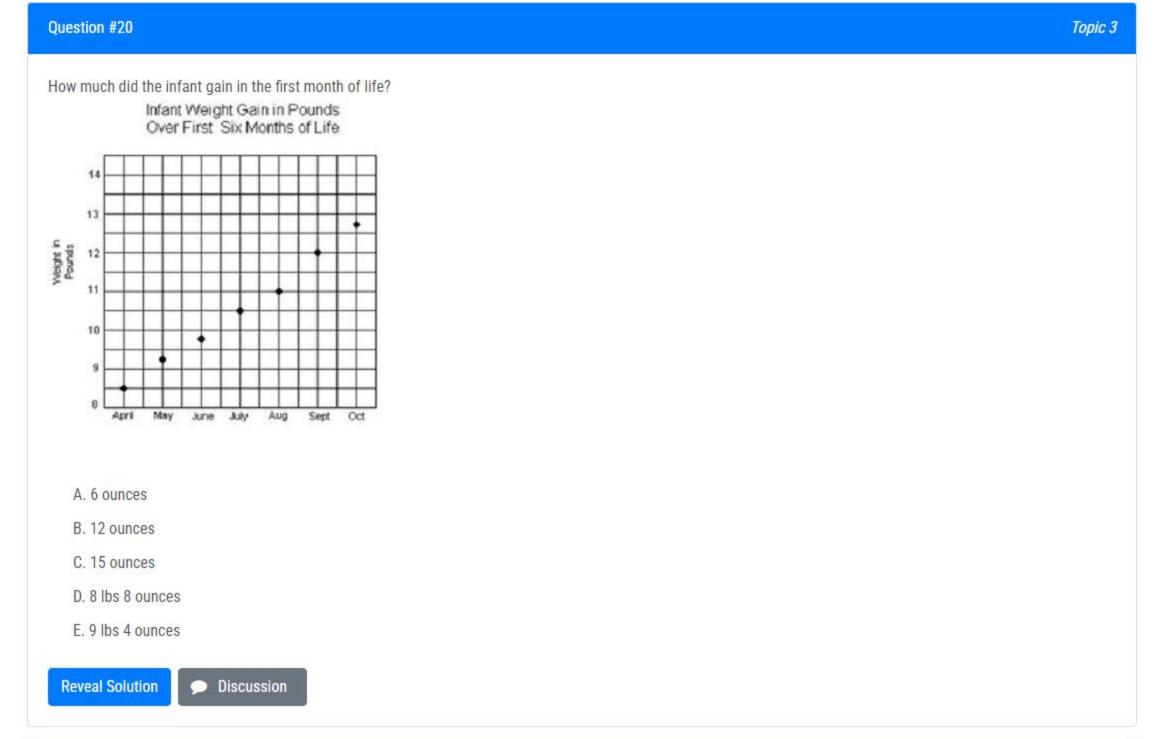
D. II, III, and IV only

E. I, II, III, and IV

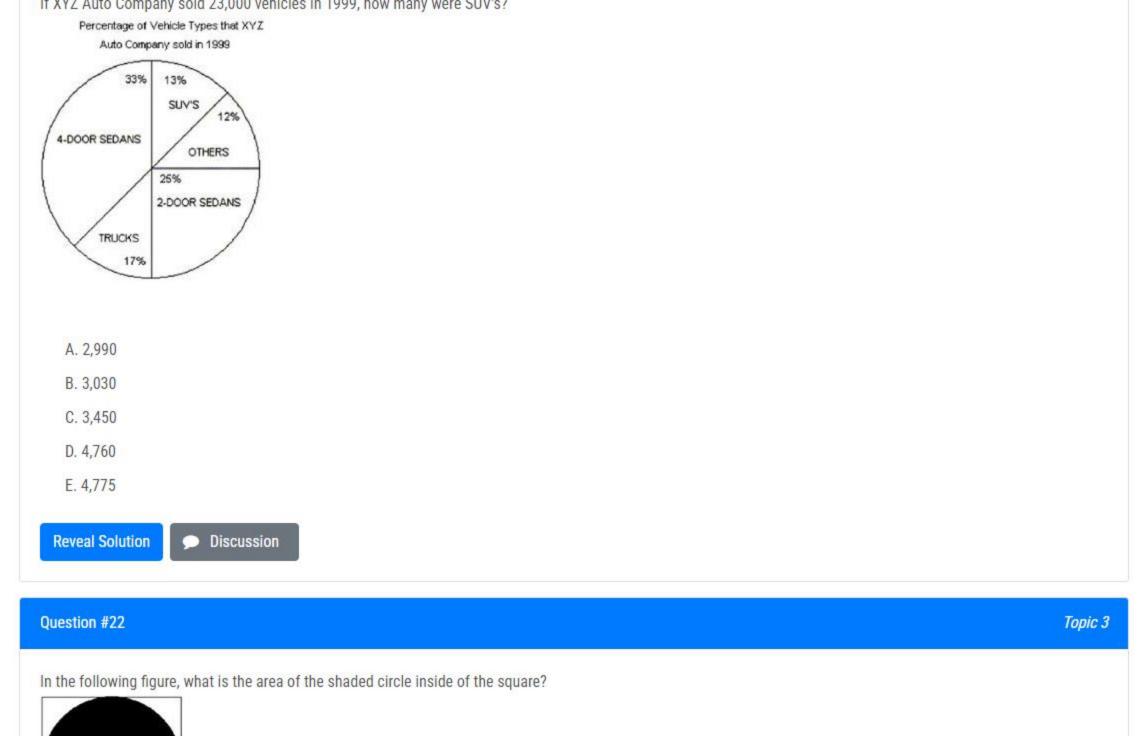
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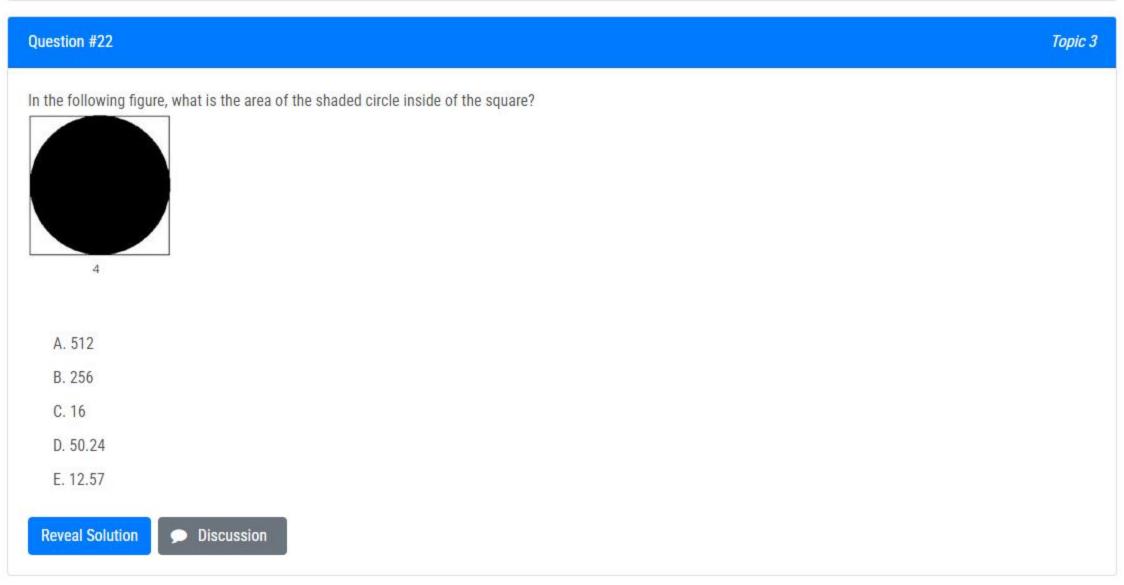






Question #21 Topic 3



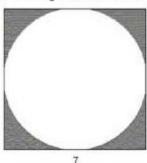


Previous Questions

Next Questions ->

Question #23 Topic 3

In the figure below, determine the area of the shaded region of the figure.



A. 9.354

B. 10.52

C. 16.437

D. 49

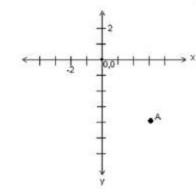
E. 104.86

Reveal Solution

Discussion

Question #24 Topic 3

What are the coordinates of point A on the following graph?



A. (-3, -4)

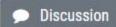
B. (-4, 3)

C. (3, -4)

D. (-4, -3)

E. (3, 4)

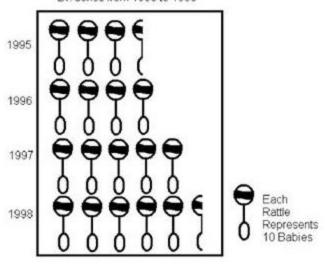
Reveal Solution



Question #25 Topic 3

What was the average number of babies that Dr. Jones delivered each year from 1995 to 1998?

The Number of Babies Delivered By Dr. Jones from 1995 to 1998



- A. 35
- B. 40
- C. 45
- D. 50
- E. 55

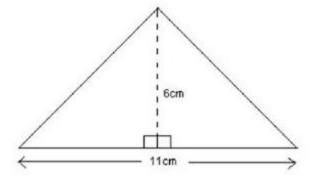
Reveal Solution

Discussion

Question #26

Topic 3

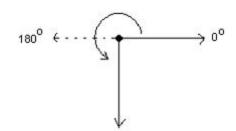
What is the area of the triangle below?



- A. 22 cm2
- B. 33 cm2
- C. 44 cm2
- D. 50 cm2
- E. 66 cm2

Question #27 Topic 3

What is the measure of the solid line angle depicted by the following figure?



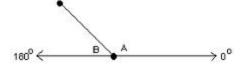
- A. 90 degrees
- B. 180 degrees
- C. 225 degrees
- D. 270 degrees
- E. 0 degrees

Reveal Solution

Discussion

Question #28 Topic 3

What is the measure of angle B in the following figure if angle A measures 135?



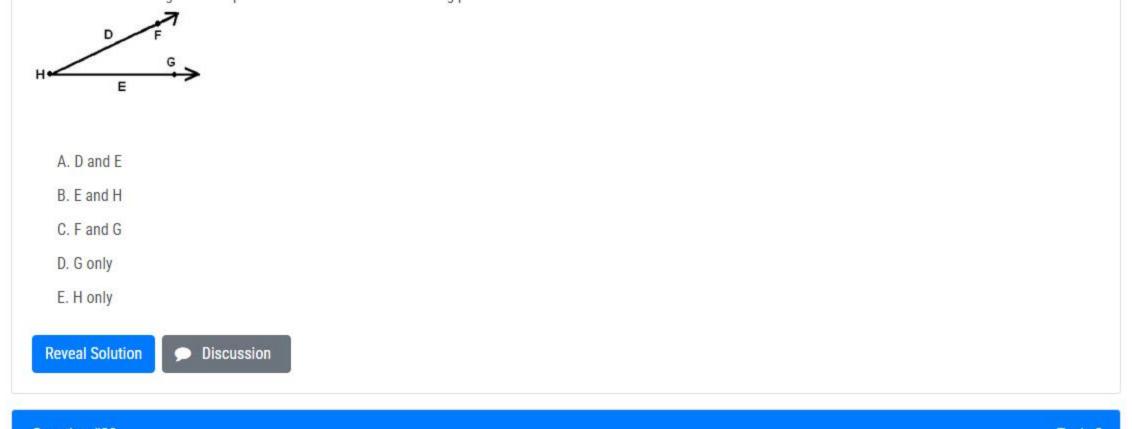
- A. 40°
- B. 45°
- C. 50°
- D. 135°
- E. 225°

Reveal Solution

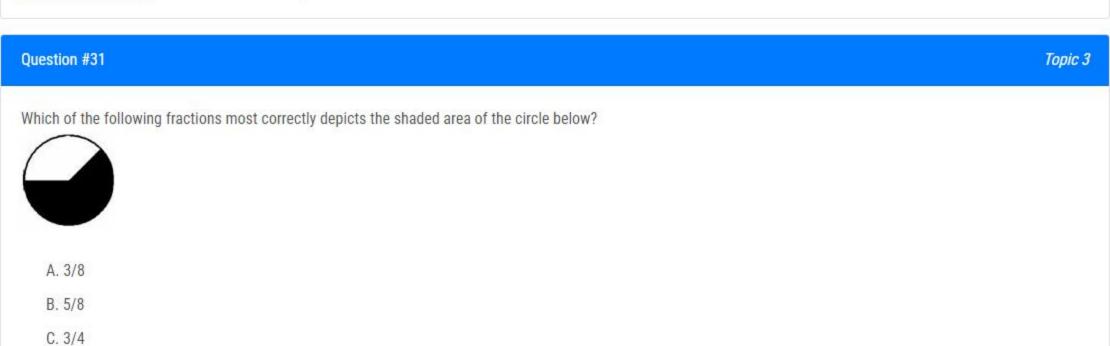
Discussion

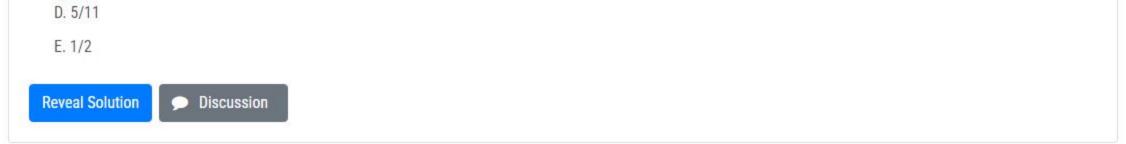
Question #29 Topic 3

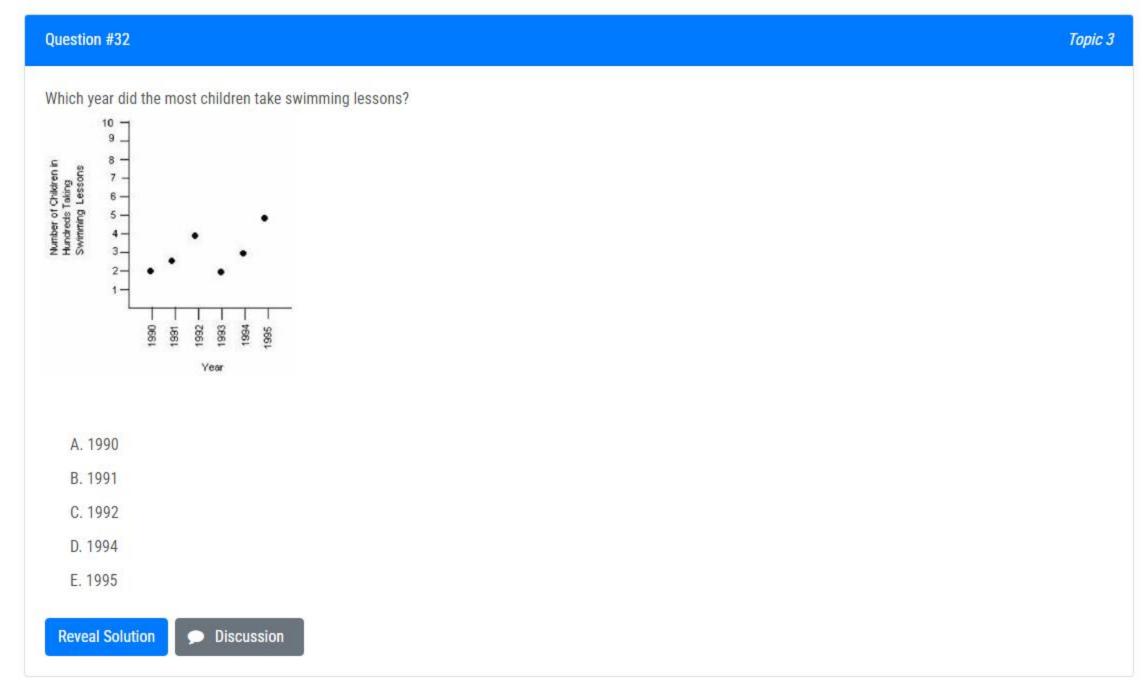
Which of the following letters represents the vertex in the following picture?

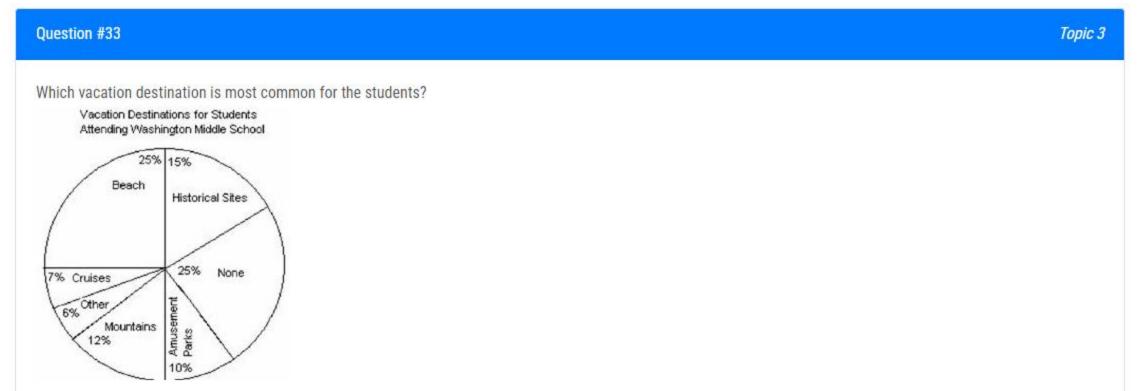




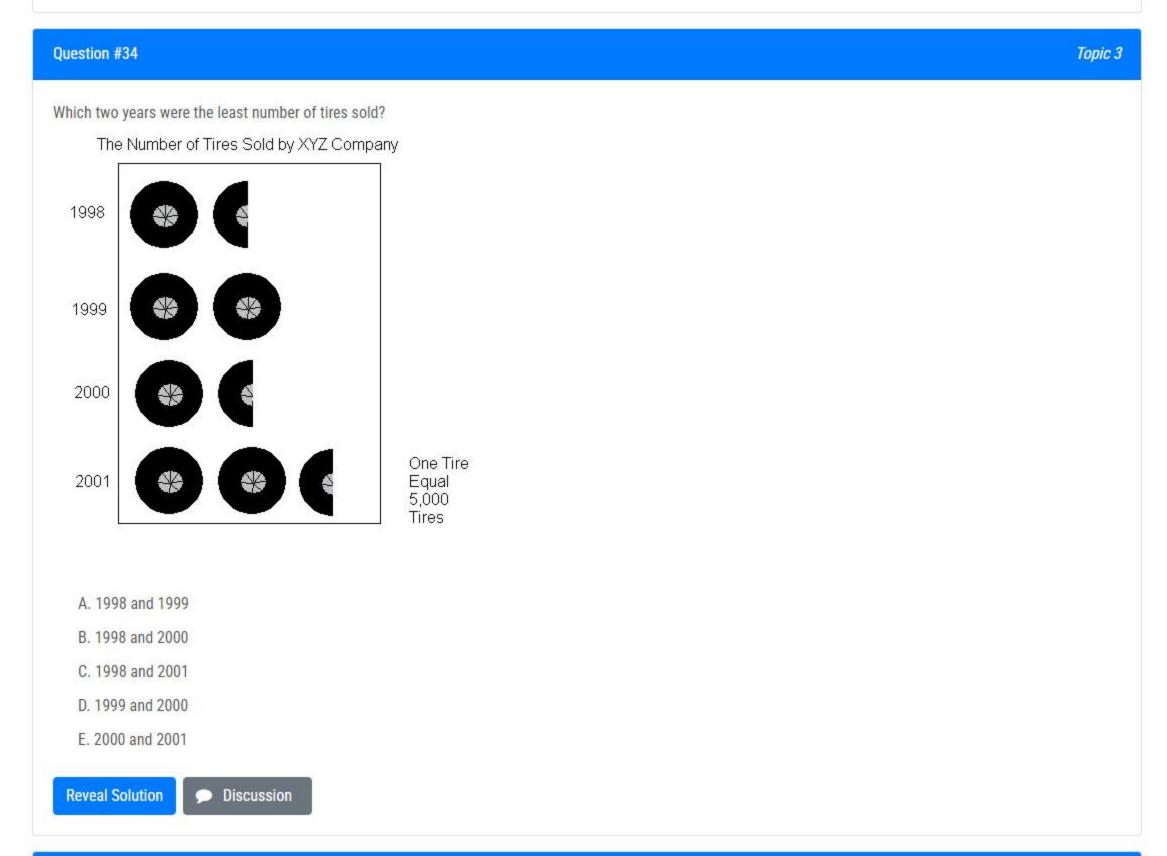






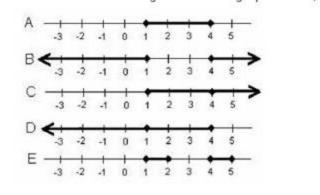






Question #35 Topic 3

Which of the following is a correct graph of x>1, x<4?



- A. Line A
- B. Line B
- C. Line C
- D. Line D
- E. Line E

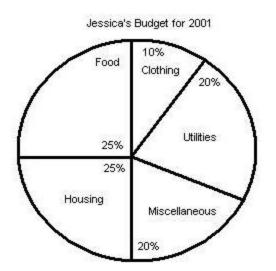
Reveal Solution



Question #36

Topic 3

How much money did Jessica's budget allow for housing in April of 2001?

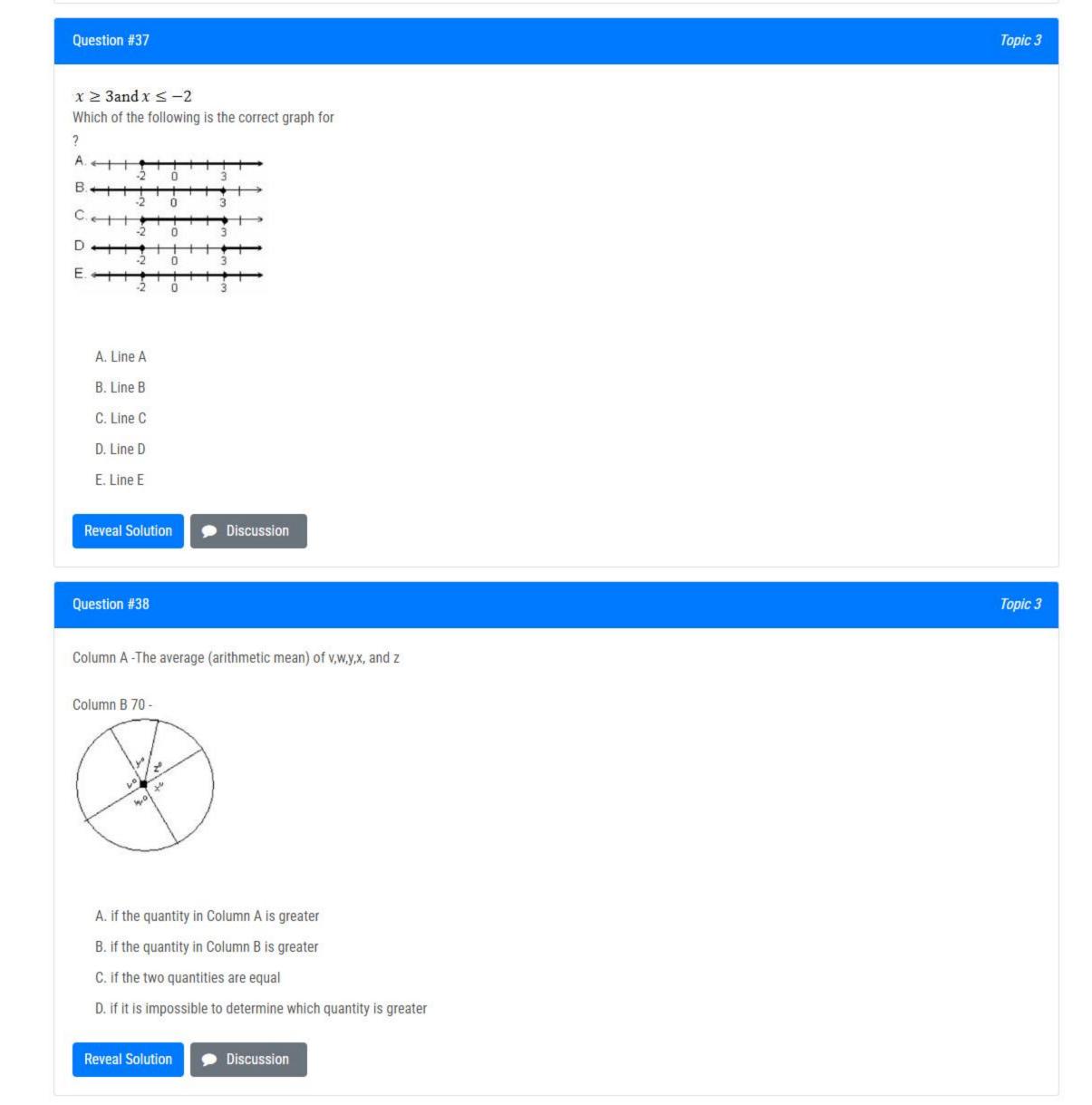


Jessica's Monthly Earnings from January 2001 to June 2001

January	\$2578	
February	\$2432	
March	\$2668	
April	\$2490	
May	\$2622	
June	\$2555	

- A. \$617.80
- B. \$620.92
- C. \$622.50
- D. \$626.38
- E. \$63 3.20

Reveal Solution

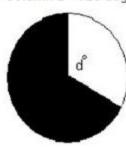


Question #39 Topic 3

The shaded are in the below figure is 65% of the are of the entire circle, what is the value of d?

Column A - d -

Column B - 126 degrees -



- A. if the quantity in Column A is greater
- B. if the quantity in Column B is greater
- C. if the two quantities are equal
- D. if it is impossible to determine which quantity is greater

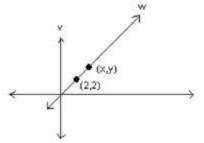
Reveal Solution

Discussion

Question #40 Topic 3

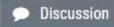
Column A - (x-y)

Column B - 0 -



- A. if the quantity in Column A is greater
- B. if the quantity in Column B is greater
- C. if the two quantities are equal
- D. if it is impossible to determine which quantity is greater

Reveal Solution



Question #41

What is the volume of the following cylinder?

T

3

A. 210.91

B. 226.20

C. 75.36

D. 904.32

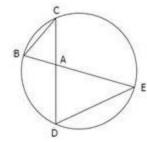
E. 28.26

Reveal Solution

Discussion

Question #42 Topic 3

In the above circle AB = 4, BC = 6, AC = 5 and AD = 6. What is the length of DE?



A. 6

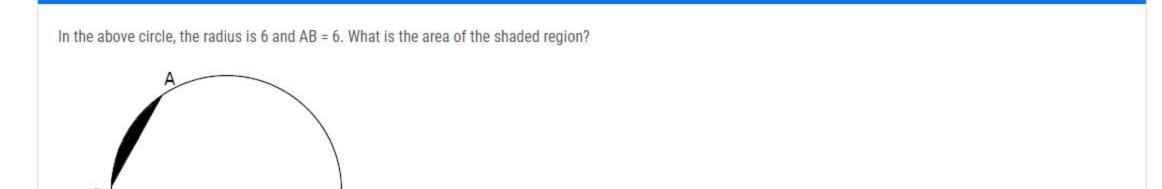
B. 7.5

C. 8

D. 9

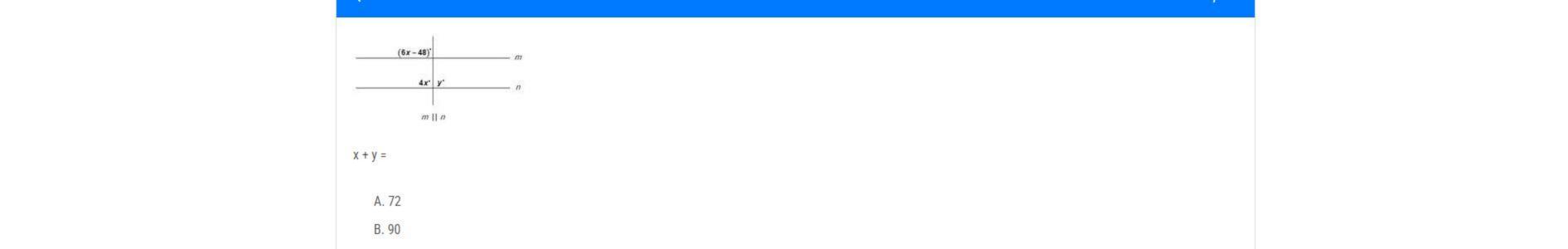
E. 10

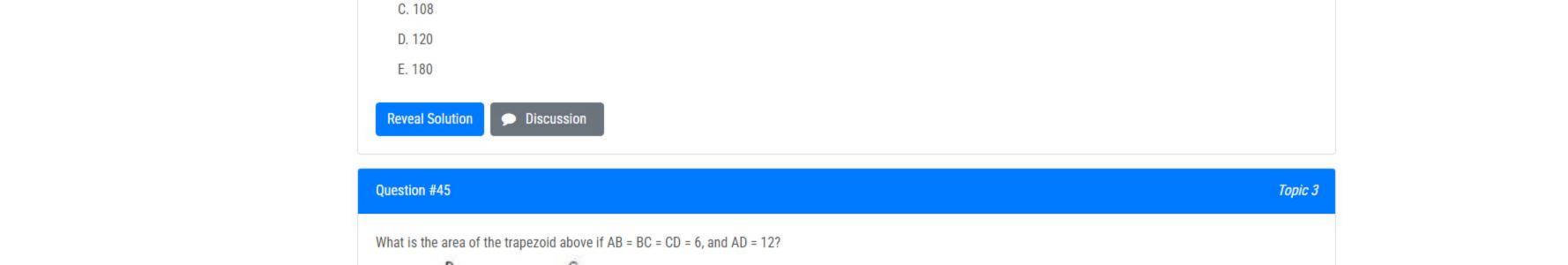
Reveal Solution













E. $18\sqrt{3}$	
A. Option A	
B. Option B	
C. Option C	
D. Option D	
E. Option E	

