

For questions (1 to 8) : Compare Quantity A and Quantity B, using additional information centered above the two quantities if such information is given, and select one of the following four answer choices:

- Quantity A is greater.
- Quantity B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.

Symbol that appears more than once in a question has the same meaning throughout the question.

Question 1

Quantity A	Quantity B
$-\frac{3}{4} + \frac{2}{3}$	$-\frac{3}{4} \times \frac{2}{3}$

Quantity A is greater.

Quantity B is greater.

The two quantities are equal.

The relationship cannot be determined from the information given.

Question 2

Quantity A	Quantity B
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The change in price of a pair of shoes marked down by 50%	The change in price of a pair of boots marked down by 30%
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- Quantity A is greater.
- Quantity B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.

Question 3

A car with all available options costs \$18,000, an increase of 20% from the base price of the car.

Quantity A	Quantity B
The base price of the car	\$14,400

- Quantity A is greater.
- Quantity B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.

Question 4

A certain brand of imported cigars costs \$30 for a box of 20; when bought individually, the cigars cost \$2 each.

Quantity A	Quantity B

The percent saved when a box of cigars is purchased, rather than 20 individual cigars	33
	1
	3
	3313

Quantity A is greater.

Quantity B is greater.

The two quantities are equal.

The relationship cannot be determined from the information given.

Question 5

<i>a is 40% of 45</i>	
<i>18 is b% of 90</i>	
Quantity A	Quantity B
<i>a</i>	<i>b</i>

Quantity A is greater.

Quantity B is greater.

The two quantities are equal.

The relationship cannot be determined from the information given.

Question 6

Jack began a savings account with a balance of \$200. His current balance is \$150.

Quantity A	Quantity B
The percent decrease from Jack's original balance to his current balance	The percent increase that would return Jack's current balance to his original balance

Quantity A is greater.

Quantity B is greater.

The two quantities are equal.

The relationship cannot be determined from the information given.

Question 7

Quantity A	Quantity B
40% of 50	50% of 40

Quantity A is greater.

Quantity B is greater.

The two quantities are equal.

The relationship cannot be determined from the information given.

Question 8

Quantity A	Quantity B
$25^2 - 20^2$	$\sqrt{14400}$

Quantity A is greater.

Quantity B is greater.

The two quantities are equal.

The relationship cannot be determined from the information given.

Question 9

If there are 20 birds and 6 dogs in a park, which of the following represents the ratio of dogs to birds in the park?

3 : 10

10 : 3

5 : 6

2 : 3

6 : 7

Question 10

If Nash had 12 grandchildren and three times as many granddaughters as grandsons, how many granddaughters did he have?

3

6

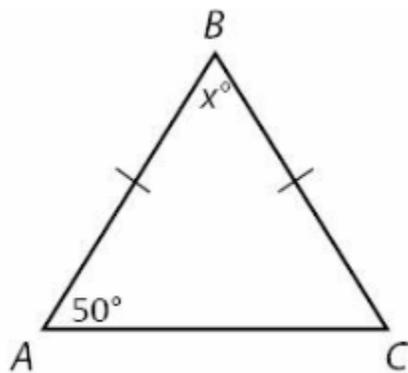
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12

15

Question 11

What is the value of x ?



Not drawn to scale.

- 80°
- 70°
- 50°
- 60°
- 40°

Question 12

Husain and Dino have an average of \$20 each. Dino wins a cash prize, which raises their average to \$80. Assuming no other changes occurred, how many dollars did Dino win?

- \$60
- \$80
- \$100
- \$120
- \$180

Question 13

On a number line, A is 6 units from B and B is 2 units from C . What is the distance between A and C ?

- 4
- 8
- 12
- 4 or 8
- 8 or 12

Question 14

If a turtle traveled $\frac{1}{30}$ of a mile in 5 minutes, what was its speed in miles per hour ?

- 0.02
- 0.04
- 0.2
- 0.4
- 2.5

Question 15

Questions (15 to 17) are based on the following data.

9th Grade Students at Millbrook High School		
	Boys	Girls
Enrolled in Spanish	12	13
Not enrolled in Spanish	19	16

Question

Approximately what percent of the 9th grade girls at Millbrook High School are enrolled in Spanish?

- 20%
- 25%
- 30%
- 35%
- 45%

Question 16

What fraction of the students in 9th grade at Millbrook High School are boys who are enrolled in Spanish?

$\frac{1}{5}$

$\frac{5}{1}$

$\frac{1}{9}$

$\frac{9}{1}$

$\frac{2}{7}$

Question 17

What is the ratio of 9th grade girls not enrolled in Spanish to all 9th grade students at Millbrook Middle School?

2 : 10

3 : 11

2 : 15

3 : 17

4 : 15

Question 18

If twice 4,632 is divided by 100, what is the tenths digit?

1

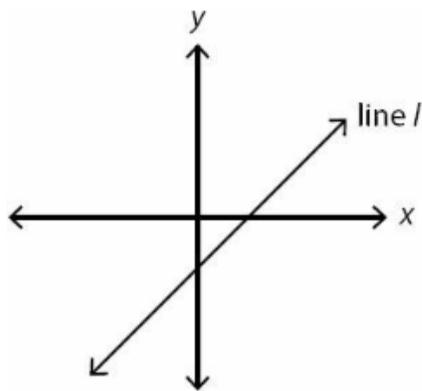
3

5

6

9

Question 20



Which of the following is most likely to be the equation of line l ?

$y = x - 6$

$y = -x - 3$

$y = 4x + 4$

$y = 4x - 4$

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