

GRE Quantitative Practice Test 7

Question 1

1. The average (arithmetic mean) high temperature for x days is 70 degrees. The addition of one day with a high temperature of 75 degrees increases the average to 71 degrees.

<u>Quantity A</u>	<u>Quantity B</u>
x	5

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

Question 2

2.

a and b are integers.

$$a^2 = b^3$$

<u>Quantity A</u>	<u>Quantity B</u>
a	b

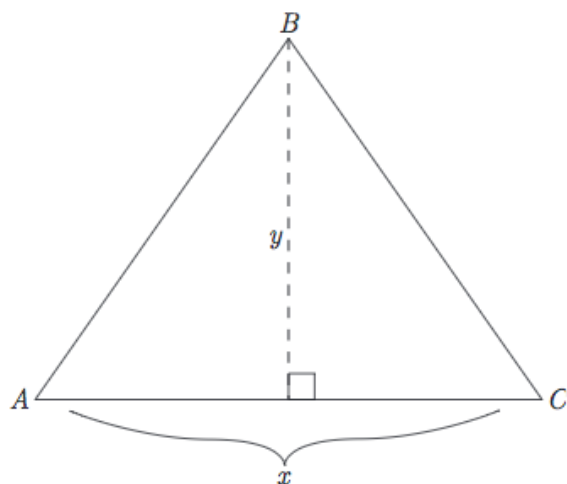
- (A) Quantity A is greater.
- (B) Quantity B is greater.
- (C) The two quantities are equal.
- (D) The relationship cannot be determined from the information given.

Question 3

3. A certain pet store sells only dogs and cats. In March, the store sold twice as many dogs as cats. In April, the store sold twice the number of dogs that it sold in March, and three times the number of cats that it sold in March. If the total number of pets the store sold in March and April combined was 500, how many dogs did the store sell in March?

- (A) 80
- (B) 100
- (C) 120
- (D) 160
- (E) 180

Question 4



△ ABC has an area of 108 cm^2 . If both x and y are integers, which of the following could be the value of x ?

Indicate all such values.

- (A) 4
- (B) 5
- (C) 6
- (D) 8
- (E) 9

Question 5

5. Each month, Renaldo earns a commission of 10.5% of his total sales for the month, plus a salary of \$2,500. If Renaldo earns \$3,025 in a certain month, what were his total sales?

Question 6

6. At a recent dog show, there were 5 finalists. One of the finalists was awarded "Best in Show" and another finalist was awarded "Honorable Mention." In how many different ways could the two awards be given out?

Question 7

1.

Column A

$$(-7)^4$$

Column B

$$(-7)^5$$

- ☐ if the quantity in Column A is greater;
- ☐ if the quantity in Column B is greater;
- ☐ if the two quantities are equal;
- ☐ if the relationship cannot be determined from the information given.

Question 8

2. $x = 2y + 5$

$y = -2$

Column A

Column B

x

1

- ☐ if the quantity in Column A is greater;
- ☐ if the quantity in Column B is greater;
- ☐ if the two quantities are equal;
- ☐ if the relationship cannot be determined from the information given.

Question 9

3.

Column A

Column B

$(0.99)^2(0.99)^3$

$(0.99)^6$

- ☐ if the quantity in Column A is greater;
- ☐ if the quantity in Column B is greater;
- ☐ if the two quantities are equal;
- ☐ if the relationship cannot be determined from the information given.

Question 10

4. The average (arithmetic mean) of x and y is 20. If $z = 5$, what is the average of x , y , and z ?

- ☐ 15
- ☐ 12.5
- ☐ 10
- ☐ $25/3$