GRE Quant Practice test 43

Question 1

$xy > 0$

Quantity A	Quantity B
x^2y^4	x^3y^6

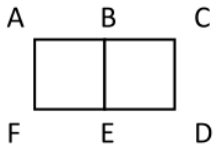
A Quantity A is greater.

B Quantity B is greater.

C The two quantities are equal.

D The relationship cannot be determined from the information given.

Question 2



Note: Not drawn to scale

In the figure shown above, line segment BC has length 16 cm, rectangle FABE is a square, and the area of rectangular region FACD is 612 cm^2.

Quantity A	Quantity B
Area of FABE	Area of EBCD

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

Working independently, Machine A can complete a work in 3.5 hours, while Machine B can complete the same work in x hours. Working simultaneously, they together complete the same work in 1.5 hours.

Quantity A	Quantity B
3	x

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 4

A driver completed the first 20 miles of a 40-mile trip at an average speed of 50 miles per hour and the second 20 miles at an average speed of x miles per hour. The average speed for the entire 40-mile trip was 60 miles per hour. (Assume that the driver did not make any stops during the 40-mile trip.)

Quantity A	**Quantity B**
$x - 60$	10

- **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 5

A positive integer x is a perfect number if the sum of all the factors of x, including 1 and x, is equal to $2x$.

Quantity A	**Quantity B**
The sum of the reciprocals of all the factors of the perfect number 28	2

- **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.