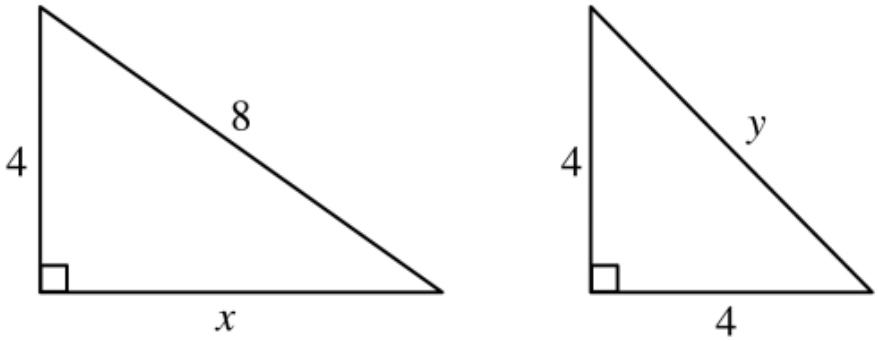
GRE Quantitative Practice Test 1

For each of Questions 1–9, compare Quantity A and Quantity B, using additional information centered above the two quantities if such information is given. Select one of the following four answer choices. A symbol that appears more than once in a question has the same meaning throughout the question.

(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 1



	Quantity A	Quantity B
1.	x	y

(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

	Quantity A	Quantity B
2.	$x^2 - 4y^2$	8

(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

A certain recipe requires $\frac{3}{2}$ cups of sugar and makes 2 dozen cookies. (1 dozen = 12)

	Quantity A	Quantity B
3.	The amount of sugar required for the same recipe to make 30 cookies	2 cups

(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 power station is located on the boundary of a square region that measures 10 miles on each side. Three substations are located inside the square region.

	Quantity A	Quantity B
4.	The sum of the distances from the power station to each of the substations	30 miles

(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.

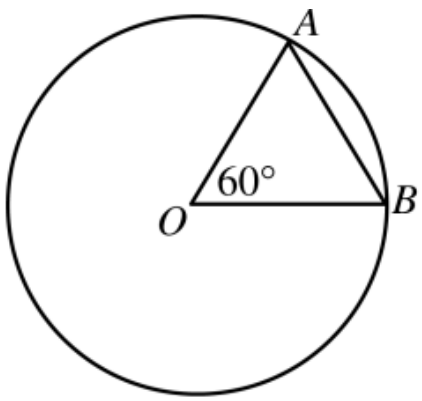
Question 5

$$6 < x < 7$$
$$y = 8$$

	Quantity A	Quantity B
5.	$\frac{x}{y}$	0.85

(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 6



O is the center of the circle and the perimeter of $\triangle AOB$ is 6.

	Quantity A	Quantity B
6.	The circumference of the circle	12

(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 7

	Quantity A	Quantity B
6.	The circumference of the circle	12

(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 8

$x > 1$

	Quantity A	Quantity B
8.	$x\left(x^2\right)^4$	$\left(x^3\right)^3$

(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 9

$x \neq 0$

	Quantity A	Quantity B
9.	$\lvert x\rvert + \lvert -2\rvert$	$\lvert x - 2\rvert$

(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 10

10. If x and y satisfy the system of equations shown, what is the value of $x - y$?

(A) $\frac{2}{3}$

(B) $\frac{3}{2}$

(C) 1

(D) 4

(E) 6