GRE Quant Practice Test 34

For each of Questions 1 to 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.
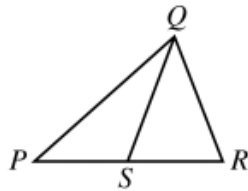Quantity A is greater.
Quantity B is greater.
The two quantities are equal.
The relationship cannot be determined from the information given.
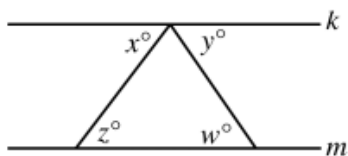A symbol that appears more than once in a question has the same meaning throughout the question.

Quantity A	Quantity B
Example 1: (2)(6)	2 + 6

The correct answer choice for Example 1 is A. (2)(6), or 12, is greater than 2 + 6, or 8.

Quantity A	Quantity B
Example 2: The length of *PS*	The length of *SR*

The correct answer choice is D. The relationship between the lengths of *PS* and *SR* cannot be determined from the information given since equal measures cannot be assumed, even though the lengths of *PS* and *SR* appear to be equal in the figure.

Line *k* is parallel to line *m*.

Quantity A	Quantity B

1. $x + y$ $w + z$

(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.

Quantity A	Quantity B

2. $0.\overline{717}$ $0.7\overline{1}$

(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.

Quantity A	Quantity B

3. s t

(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.

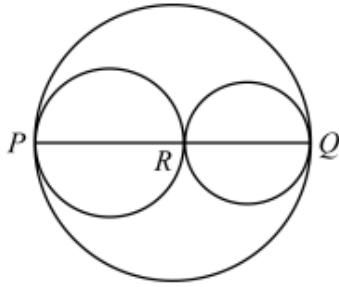Three circles with their centers on line segment PQ are tangent at points P, R, and Q, where point R lies on line segment PQ.

Quantity A	Quantity B

4. The circumference of the largest circle

   The sum of the circumferences of the two smaller circles

(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.

$$rt < 0 < -r$$

Quantity A	Quantity B

5. t 0

(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.

$$x > y$$

	Quantity A	Quantity B
6.	$|x + y|$	$|x - y|$

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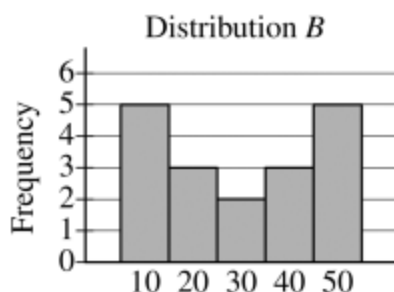(D) The relationship cannot be determined from the information given.

In the xy-plane, the points $(a, 0)$ and $(0, b)$ are on the line whose equation is $y = \frac{1}{2}x + 10$.

	Quantity A	Quantity B
7.	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.

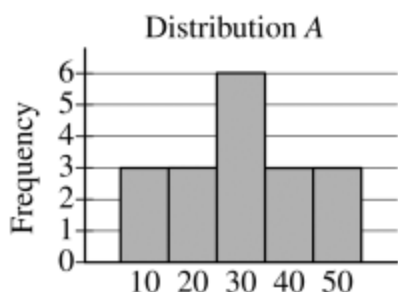Distribution A

Distribution B

The frequency distributions shown represent two groups of data. Each of the data values is a multiple of 10.

Quantity A	Quantity B
8. The standard deviation of distribution *A*	The standard deviation of distribution *B*

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

One person is to be selected at random from a group of 25 people. The probability that the selected person will be a male is 0.44, and the probability that the selected person will be a male who was born before 1960 is 0.28.

Quantity A	Quantity B
9. The number of males in the group who were born in 1960 or later	4

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

10. At Company Y, the ratio of the number of female employees to the number of male employees is 3 to 2. If there are 150 female employees at the company, how many male employees are there at the company?

								male employees
−	.	.	.	.	.	.	.	
	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	
	2	2	2	2	2	2	2	
	3	3	3	3	3	3	3	
	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	
	6	6	6	6	6	6	6	
	7	7	7	7	7	7	7	
	8	8	8	8	8	8	8	
	9	9	9	9	9	9	9	

This question has five answer choices. Select the best **one** of the answer choices given.

11. If $\dfrac{a-b}{a+b} = 2$ and $b = 1$, what is the value of a ?

(A) 1

(B) 0

(C) −1

(D) −2

(E) −3

This question has five answer choices. Select the best **one** of the answer choices given.

12. The floor space in a certain market is rented for $15 per 30 square feet for one day. In the market, Alice rented a rectangular floor space that measured 8 feet by 15 feet, and Betty rented a rectangular floor space that measured 15 feet by 20 feet. If each woman rented her floor space for one day, how much more did Betty pay than Alice?

Ⓐ $27

Ⓑ $36

Ⓒ $54

Ⓓ $90

Ⓔ $180