

Quantitative Comparison Practice Pages

Directions

Notes:

- (1) The use of a calculator is permitted. All numbers used are real numbers.
- (2) Figures that accompany problems in this test are intended to provide information useful in solving the problems. They are drawn as accurately as possible EXCEPT when it is stated in a specific problem that the figure is not drawn to scale. All figures lie in a plane unless otherwise indicated.

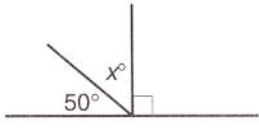
Questions 1-15 each consist of two quantities in boxes, one in Column A and one in Column B. You are to compare the two quantities and on the answer sheet fill in oval

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

Notes:

1. In some questions, information is given about one or both of the quantities to be compared. In such cases, the given information is centered above the two columns and is not boxed.
2. In a given question, a symbol that appears in both columns represents the same thing in Column A as it does in Column B.
3. Letters such as x , n , and k stand for real numbers.

EXAMPLES

	Column A	Column B	Answers
E1	4	-10	<input type="radio"/> A <input checked="" type="radio"/> B <input type="radio"/> C <input type="radio"/> D
E2		40	<input type="radio"/> A <input type="radio"/> B <input checked="" type="radio"/> C <input type="radio"/> D
E3	$0t$	$t + 0$	<input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input checked="" type="radio"/> D

	Column A	Column B
1	The number of degrees in a right angle	The number of seconds in an hour
$n \neq 0$		
2	$n + (-n)$	$n \times \frac{1}{n}$

	Column A	Column B
3	x	0.2
$\frac{0.05}{x} = \frac{0.2}{0.6}$		
4	The slope of $2x + 3y = 7$	The slope of $3x - 2y = 7$

Column A

Column B

5

$$23 - 4(2)0$$

$$6 + 10(3 - 2)$$

15 miles

10 miles

County X

5 miles

20 miles

County Y

6

The population of County X if there are 100 people per square mile

The population of County Y if there are 50 people per square mile

7

\$75

\$89.95 decreased by 20%



A is the midpoint of \overline{RB} .

B is the midpoint of \overline{AS} .

8

RA

SB

$$n! = n(n - 1)(n - 2) \dots (2)1$$

9

$$\frac{8!}{2!6!}$$

4!

Let $*y$ denote the least integer equal to or greater than y .

10

 $*0.4$ $*1.0$

Column A

Column B

$$\frac{1}{3} < a < \frac{2}{3}$$

$$\frac{2}{3} < b < 1$$

11

$$a + b$$

$$a^2 + b^2$$

$$5x - 2y = 4$$

12

The y-intercept of the line perpendicular to the given line and containing $(-2, 3)$

The y-intercept of the line parallel to the given line and containing $(-2, 3)$

$$\frac{5}{b} = 2; 5 = \frac{2}{c}$$

13

$$c + \frac{1}{3}$$

$$b + \frac{11}{6}$$

14

One tenth of the product of the first ten integers

The product of the first nine integers

Last Friday, 80% of the girls and 75% of the boys were present in an Algebra class.

15

The number of girls absent

The number of boys absent