Quantitative Comparison

Directions

Each question has two quantities to be compared: one in a box in the left hand column and one in a box in the right hand column.

Notes:

Compare the quantities taking into consideration any other information given and choose

- Answer A - if the quantity on the left is greater
- Answer B - if the quantity on the right is greater
- Answer C - if both are equal
- Answer D - if the relationship cannot be determined without further information.

1.
$$5 + \frac{3}{4}$$
$$\frac{23}{4}$$

2. The result after 7.532 has been rounded to the nearest tenth

   The result after 7.471 has been rounded to the nearest tenth

3. When twice the number N is decreased by 4, the result is 8

   N

   12

4.
   $$x > y$$
   $$y < z$$

   x

   z

5. A car travels x miles in 3 hours.

   $$x > 0$$

   At this rate, the number of miles the car would travel in 12 hours

   3x

6. Set T consists of all the positive integer multiples of 2 that are less than 50, and set R consists of all the positive integer multiples of 7 that are less than 50.

   The number of integers that sets T and R have

   4

Quantitative Comparison

in common

7.

$ab > 0$

$a > 0$

| a | b |

8. x°, y°, and z° are the measures of three of the four angles of a parallelogram

| x + y | 2z |

9.

| The number of different prime factors of 28 that are greater than 2 | The number of different prime factors of 24 that are greater than 2 |

10. The product of two consecutive positive integers equals 6 times the smaller integer.

| The sum of the two integers | 10 |

11. a is a positive integer.

| The remainder when a is divided by 7 | The remainder when a^2 is divided by 7 |

12. A square piece of paper with sides of length s is cut into exactly five pieces with area 9, 9, 10, 10, and 11.

| s | 8 |

13.

| 0.37 | 0.307 |

14.

$$\frac{x}{2} = \frac{4}{y} = 4$$

| x | y |

15. Three times the sum of x and y is 18.

| Twice the sum of x and y | 12 |

Quantitative Comparison

In Company A, both the number of male employees and the total number of employees were greater in 1991 than in 1990.

16.

| The number of female employees in Company A in 1990 | The number of female employees in Company A in 1991 |

$$s > t$$

17.

| $(s - t)^2$ | $(t - s)^2$ |

The original price of a jacket is discounted by 20 percent, giving a sale of $88.

18.

| The original price of the jacket | $108 |

m and n are integers

$$0 < m < n < 10$$

19.

| The number of multiples of m between 1 and 100 | The number of multiples of n between 1 and 100 |

x is a positive integer.

$$0.80 < \frac{x}{x+1} < 0.85$$

20.

| x | 4 |

ANSWERS

1.	C	2.	C	3.	B	4.	D
5.	A	6.	B	7.	D	8.	D
9.	A	10.	A	11.	B	12.	A
13.	A	14.	A	15.	C	16.	D
17.	C	18.	A	19.	A	20.	A