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.

20. $0.80 < \frac{x}{x+1} < 0.85$

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**