

1. If S is a number between 0 and 1, which of the following is **NOT** more than S ?
A. \sqrt{S} B. $1/S$ C. $2S$ D. S^2
2. Look at the pattern carefully: 10 20 25 35 40 50 55, then which of the following pair of numbers come next?
A. 60 65 B. 65 70 C. 60 75 D. 60 70
3. What is the simplified form of $(1 \div 10^{-1}) \times (-1)^{-10}$?
A. 10 B. 1 C. 0.1 D. 100
4. If $b \neq 0$ and $\frac{a}{5} = \frac{b}{7}$, what is the value of $\frac{a}{b}$?
A. $7/5$ B. $1/7$ C. $1/5$ D. $5/7$
5. Look at the pattern carefully: 32 31 32 29 32 27 32, then which of the following pair of numbers comes next?
A. 29 32 B. 29 30 C. 25 32 D. 25 30
6. $1 \div 0.1 \div 0.01 \div 0.001$ is equal to
A. 1,000,000 B. 0.001 C. 100 D. 0.00001
7. What number increased by 3 is equal to 3 less than twice the number?
A. 3 B. 9 C. 12 D. 6
8. Three professors contested an election for a university president and received 1136, 7636 and 11628 votes, respectively. What percentage of the total votes did the winning professor get?
A. 65% B. 57% C. 59% D. 61%

9. If one-fourth of one-third of a number is 15, then what is three-tenth of that number?

- A. 39 B. 45 C. 54 D. 34

10. An athlete completes a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. What is the total journey in km?

- A. 216 km B. 225 km C. 218 km D. 230 km

11. If $y \neq 0$ and $xy = \frac{y}{6}$, what is the value of x ?

- A. $1/2$ B. $1/8$ C. $1/4$ D. $1/6$

12. What number should come next in the series: 7, 10, 8, 11, 9, 12, ...?

- A. 13 B. 10 C. 12 D. 7

13. The difference between a positive proper fraction and its reciprocal is $9/20$. What is the value of the fraction?

- A. $5/4$ B. $3/5$ C. $4/3$ D. $4/2$

14. What is the product of $(\sqrt{7} - 2)(\sqrt{7} + 2)$?

- A. 5 B. 4 C. 2 D. 3

15. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?

- A. 8 years B. 4 years C. 6 years D. 10 years

16. What number should come next in the series: 544, 509, 474, 439, ...?

- A. 445 B. 420 C. 404 D. 414

17. A library has an average of 510 visitors on Sundays and 240 on other days. What is the average number of visitor per day in a month of 30 days beginning with a Sunday?

- A. 285 B. 283 C. 275 D. 290

18. What number should come next in the series: 58, 52, 46, 40, 34, ... ?

- A. 32 B. 30 C. 28 D. 34

19. If $x > y$, compare the two quantities

Quantity A	Quantity B
30% of x	50% of y

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

20. Compare the two quantities

Quantity A	Quantity B
$(-21)^{12}$	$(-31)^{13}$

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

25. What percent is the total number of qualified candidates in 1997-2000 to the total number of those qualified in 2001-2004?

A. 84%

B. 76%

C. 78%

D. 80%