

## BARC Mathematics Questions and Answers



1. What is the average of first 150 natural numbers?

- (A) 70
- (B) 70.5
- (C) 75
- (D) 75.5

ANSWER: (D)

2.  $0.003 \times 0.02 = ?$

- (A) 0.06
- (B) 0.006
- (C) 0.0006
- (D) 0.00006

ANSWER: (D)

3. What is the average of the numbers: 0, 0, 4, 10, 5, and 5 ?

- (A) 2
- (B) 3
- (C) 4
- (D) 5

ANSWER: (C)

4. What is the rate of discount if a car which price was \$4,000 was sold for \$3,200 ?

- (A) 14%
- (B) 16%
- (C) 18%
- (D) 20%

ANSWER: (D)

5.  $|-4| + |4| - 4 + 4 = ?$

- (A) 0
- (B) 2
- (C) 4
- (D) 8

ANSWER: (D)

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6. What is the value of  $x$  in the equation  $3x - 15 - 6 = 0$  ?

- (A) 7
- (B) 8
- (C) 9
- (D) -9

ANSWER: (A)

7. If  $a = b$  and  $b = c$ , then  $a = c$ . This property is called ?

- (A) Reflexive
- (B) Transitive
- (C) Trichotomy
- (D) Symmetric

ANSWER: (B)

8. If  $a > b$  and  $b > a$ , then ?

- (A)  $a = b$
- (B)  $a \neq b$
- (C) cannot be evaluated
- (D) impossible

ANSWER: (A)

9.  $\pi$  ( $\pi$ ) denotes the ratio of the \_\_\_\_\_ to the \_\_\_\_\_ .

- (A) area of a circle, circumference of the circle
- (B) area of a circle, length of its diameter
- (C) circumference of a circle, length of its radius
- (D) circumference of a circle, length of its diameter

ANSWER: (D)

10. The value of  $\pi$  ( $\pi$ ) is a/an \_\_\_\_\_ .

- (A) rational number
- (B) irrational number
- (C) integer
- (D) complex number

ANSWER: (B)

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11. If  $x^2 + 1 = 0$ , then  $x = ?$

- (A) 1
- (B)  $i$
- (C)  $\pm 1$
- (D)  $\pm i$

ANSWER: (D)

12.  $491 \div 9 =$

- A. 54 r5
- B. 56 r6
- C. 57 r5
- D. 51 r3

ANSWER: (A)

13.  $703 \div 6 =$

- A. 116 r5
- B. 117 r1
- C. 116 r3
- D. 118 r4

ANSWER: (B)

14. Express  $71/1000$  as a decimal.

- A. .71
- B. .0071
- C. .071
- D. 7.1

ANSWER: (C)

15.  $4.7 + .9 + .01 =$

- A. 5.5
- B. 6.51
- C. 5.61

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D. 5.7

ANSWER: (C)

16.  $.33 \times .59 =$

A. .1947

B. 1.947

C. .0197

D. .1817

ANSWER: (A)

17.  $.84 \div .7 =$

A. .12

B. 12

C. .012

D. 1.2

ANSWER: (D)

18. Express the ten thousandths place in 1.7389

A. 1

B. 8

C. 9

D. 3

ANSWER: (C)

19.  $.87 - .48 =$

A. .39

B. .49

C. .41

D. .37

ANSWER: (A)

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20. Round 3.864 to the nearest tenth.

- A. 3.9
- B. 3.86
- C. 4
- D. 3.96

ANSWER: (A)

21. Which is the equivalent decimal number for forty nine thousandths?

- A. .49
- B. .0049
- C. .049
- D. 4.9

ANSWER: (C)

22. What is 6 more than  $\frac{1}{3}$  of 25?

- a. 8.33
- b. 15
- c. 14.33
- d. 18

ANSWER: (c)

23. What number is the largest?

- a. 50% of 50
- b.  $\frac{2}{5}$  of 200
- c. 0.2 portion of 20
- d.  $\frac{1}{5}$ th of 30

ANSWER: (b)

24. What is the smallest value?

- a. 0.4 portion of 200
- b. 50% of 100

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- c. 0.06 portion of 2000
- d. 2% of 1000

ANSWER: (d)

25. What number is the largest?

- a. 5 % of 400
- b. 25% of 4000
- c. 2 % of 500
- d. 8% of 1000

ANSWER: (b)

26. What is the smallest value?

- a. 4 % of 4
- b. 5 % of 5
- c. 0.3% of 12
- d.  $\frac{1}{5}$  of 100

ANSWER: (c)

27. What is 8 more than  $\frac{2}{5}$  of 20?

- a. 10
- b. 12
- c. 16
- d. 8

ANSWER: (c)

28. What is 6 more than 50% of 50?

- a. 31
- b. 41
- c. 25

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d. 26

ANSWER: (a)

29. What number subtracted from 100 leaves 7 more than  $\frac{3}{4}$  of 40?

a. 50

b. 63

c. 47

d. 75

ANSWER: (b)

30. What number divided by 5 is  $\frac{1}{4}$  of 100?

a. 125

b. 150

c. 75

d. 225

ANSWER: (a)