

8 CLASS



GCS OLYMPIADS
Olympiads of the New Millennium
An ISO 9001:2015 Certified Organization

Duration : 60 Min.
Total Ques. : 50
Paper Type : M 1

GLOBAL MATHS OLYMPIAD (GMO)

- 1- The Actual Question Paper Contains 50 Questions. Section A Contains 45 Ques. and Section B Contains 5 Ques. (Reasoning & Mental Ability) . Each questions carry an equal marks of 2 .
- 2- The Duration of the Test Paper is 60 Minutes.
- 3- OMR answer sheets are there for class 8.

Section - A (Maths)

1. Which of the following equations illustrates the inverse property of multiplication ?

- (A) $5 \times \frac{1}{5} = 1$ (B) $5 \times 1 = 5$
(C) $5 \times 0 = 0$ (D) $5 \times 5 = 25$
(E) None of these

2. If $x = \frac{-15}{4}$, $y = \frac{7}{6}$; then $|x - y|$ is equal to _____ .

- (A) $\frac{-59}{12}$ (B) $\frac{59}{12}$
(C) $\frac{31}{12}$ (D) $\frac{-31}{12}$
(E) None of these

3. Name the property of multiplication of rational numbers illustrated by the given statement.

$$\frac{-3}{2} \times \frac{5}{4} + \frac{-3}{2} \times \frac{-7}{6} = \frac{-3}{2} \times \left(\frac{5}{4} + \frac{-7}{6} \right)$$

- (A) Associativity (B) Distributivity
(C) Commutativity (D) All of these
(E) None of these

4. The age of a man is same as his wife's age with the digits reversed. Then sum of their ages is 99 years and the man is 9 years older than his wife. How old is the man ?

- (A) 50 years (B) 49 years
(C) 54 years (D) 44 years
(E) None of these

5. A man is 5 years older than his wife and the wife is now thrice as old as their daughter, who is 10 years old. How old was the man when his daughter was born ?

- (A) 20 years (B) 23 years
(C) 25 years (D) 30 years
(E) None of these

6. Tarun had some change in his pocket. After his friend gave him ₹ 0.45. Tarun had ₹ 1.35 Altogether. Which equation can he use to find the original amount of money m , he had in his pocket ?

- (A) $m+0.45=1.35$ (B) $1.35=m-0.45$
(C) $m=1.35 \times 0.45$ (D) $m+1.35=0.45$
(E) None of these

7. If two-third of a number is multiplied by three-fourth of the same number, the result is 338. Then, the number is _____ .

- (A) 18 (B) 24
(C) 26 (D) 36
(E) None of these

8. Ram has ₹ 27 in the form of fifty paise and twenty-five paise coins. He has twice as many twenty-five paise coins as he has fifty paise coins. The number of coins of each kind are _____ .

- (A) 22 and 50
(B) 27 and 54
(C) 20 and 50
(D) 30 and 40
(E) None of these

9. The denominator of a rational number is greater than its numerator by 3. If 3 is subtracted from the numerator and 2 is added to its denominator, the new number becomes $\frac{1}{5}$. The original number is _____ .

- (A) $-\frac{5}{8}$ (B) $\frac{5}{8}$
 (C) $\frac{3}{8}$ (D) $-\frac{3}{8}$
 (E) None of these

10. Two years ago, Dilip was three times as old as his son and two years hence, twice his age will be equal to five times that of his son. Then the present age of Dilip is _____ .

- (A) 14 years (B) 38 years
 (C) 32 years (D) 34 years
 (E) None of these

11. A number consists of two digits whose sum is 8. If 18 is added to the number, its digits are interchanged. The number is _____ .

- (A) 53 (B) 35
 (C) 92 (D) 63
 (E) None of these

12. The perimeter of a rectangle is numerically equal to the area of rectangle. If width of rectangle is

$2\frac{3}{4}$ cm, then its length is _____ .

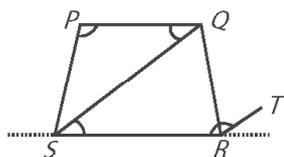
- (A) $\frac{11}{3}$ cm (B) $\frac{22}{3}$ cm
 (C) 11 cm (D) 10 cm
 (E) None of these

13. Each interior angle of a regular polygon lies between 136° and 142° , then the number of sides of the polygon is _____ .

- (A) 6 (B) 9
 (C) 10 (D) 12
 (E) None of these

14. In the given figure, line RT is drawn parallel to SQ. If $\angle QPS = 100^\circ$, $\angle PQS = 40^\circ$, $\angle PSR = 85^\circ$ and $\angle QRS = 70^\circ$, then $\angle QRT$ is _____ .

- (A) 45°
 (B) 65°
 (C) 85°
 (D) 90°
 (E) None of these



15. In a parallelogram ABCD, if $\angle A = 45^\circ$, then the other angles are _____ .

- (A) $45^\circ, 120^\circ, 120^\circ$
 (B) $45^\circ, 135^\circ, 135^\circ$
 (C) $60^\circ, 135^\circ, 135^\circ$
 (D) $60^\circ, 120^\circ, 120^\circ$
 (E) None of these

16. If bisectors of $\angle A$ and $\angle B$ of a quadrilateral ABCD intersect each other at P, of $\angle B$ and $\angle C$ at Q, of $\angle C$ and $\angle D$ at R and of $\angle D$ and $\angle A$ at S, then PQRS is a ____ .

- (A) Rectangle
 (B) Rhombus
 (C) Parallelogram
 (D) Quadrilateral whose opposite angles are Supplementary
 (E) None of these

17. A number is multiplied by half of itself and then 32 is added to the product. If the final result is 130, then find the original number.

- (A) 4 (B) 7
 (C) 5 (D) 14
 (E) None of these

18. A number is multiplied by $2\frac{1}{3}$ times itself and

then 61 is subtracted from the product obtained. If the final result is 9200, then the number is _____ .

- (A) 36 (B) 63
 (C) 67 (D) 37
 (E) None of these

Section - B (Logical Reasoning)

19. Mohit starting from a fixed point goes 15 m towards North and then after turning to his right he goes 15 m. Then he goes 10, 15 and 15 meters after turning to his right each time. How far is he from his starting point?

- (A) 20 metres (B) 5 metres
 (C) 10 metres (D) 15 metres
 (E) None of these

20. If in a certain code, 'LUTE' is written as 'MUTE' and 'FATE' is written as 'Gate', then how will 'BLUE' be written in the code?

- (A) CLUE (B) GLUE
 (C) FLUE (D) SLUE
 (E) None of these