



MUMBAI MATH CHAMPIONSHIP

MOCK TEST – Grade 6

Total Marks: 100

Time Duration: 1 hour

LOGICAL REASONING

Q1.(Number Series)

Find the missing character from the given figure.

3	6	8
5	8	4
4	7	?

- (A) 5
- (B) 4
- (C) 6
- (D) 8

Q2.(Number System)

Choose the odd one out:

- (A) 143
- (B) 169
- (C) 121
- (D) 100

Q3.(Multiplication and Division)

If $58 \times 43 = 3485$, $59 \times 46 = 6495$, then $37 \times 86 = ?$



(A) 3428

(B) 6873

(C) 4789

(D) 6887

Q4.(Number System)

Complete the series:

13, 25, 1, 37, -11,

(A) 50

(B) 47

(C) 49

(D) 55

Q5. (Number System)

If M means \div N means + O means – and P means \times then compute the value of 25 N 25 M 5 P 6 O 9

(A) 51

(B) 54

(C) 52

(D) 58

MENTAL MATH

Q6.(Fractions)

What is the equivalent fraction of $\frac{7}{19}$ having numerator 42?

(A) $\frac{45}{67}$

(B) $\frac{42}{114}$

(C) $\frac{42}{19}$

(D) $\frac{7}{12}$

Q7. (Decimals)

Sakshi spent ₹ 25.79 for buying biscuits and ₹ 54.68 for buying cake. Find the total amount spent by Sakshi.

- (A) ₹ 91.63
- (B) ₹ 110.46
- (C) ₹ 80.47
- (D) ₹ 88.99

Q8. (Geometry Area and Perimeter)

A 100 m side square can be divided into how many rectangles of size 2m x 1m?

- (A) 2,200
- (B) 5,000
- (C) 1,000
- (D) 100

Q9. (Time intervals)

Paul starts reading at 6:23 PM. He stops at 6:48 PM. How many minutes did Paul read?

- (A) 25
- (B) 20
- (C) 40
- (D) 15

Q10. (Geometry: Circles)

What is the circumference of circle whose diameter is 8 cm?



- (A) 50.24 cm
- (B) 25.12 cm
- (C) 25 cm
- (D) 64 cm

Q11. (Factors: HCF AND LCM)

Write HCF and LCM of numbers whose prime factorization is as:

$$2 \times 5 \times 7, \quad 2^2 \times 3 \times 5, \quad 3 \times 7$$

- A) HCF= 5 LCM = $2 \times 3 \times 5^2$
- (B) HCF =1 LCM= 441
- (C) HCF= 7 LCM= $3 \times 5^3 \times 7$
- (D) HCF= 3 LCM= $2 \times 3^2 \times 5$

Q12. (Geometry: Lines and Angles)

How many degrees are there is $\frac{5}{6}$ th of a straight angle?

- (A) 50°
- (B) 180°
- (C) 150°
- (D) 76°

Q13. (Multiplication and Division)

The cost of a chair is ₹ 500. Find the cost of such 2,006 chairs?

- (A) ₹ 10,03,000
- (B) ₹ 10,04,000



(C) ₹10,00,030

(D) ₹ 11,00,300

Q14. (Large Numbers)

A poultry farm produced 10,544 eggs in January and 11,645 eggs in February. How many more eggs have been produced in February month?

(A) 1,101

(B) 1,111

(C) 1,123

(D) 2,101

Q15. (Roman Numerals)

Sia bought XX chocolates and gave IX chocolates to her little brother. How many chocolates she is left with?

(A) III

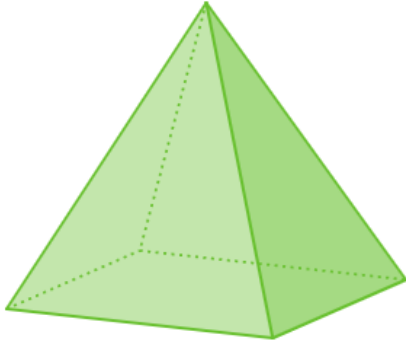
(B) IXX

(C) XI

(D) I

Q16. (Three Dimensional Objects)

Find the number of faces in this figure-



- (A) 3
- (B) 5
- (C) 6
- (D) 4

Q17. (Measurement)

How many tiles whose length and breadth are 5 m and 8 m respectively will be needed to fit in a rectangular region whose length and breadth are 100 m and 20 m respectively?

- (A) 35
- (B) 50
- (C) 80
- (D) 56

Q18. (Decimals)

Value of $-1.8 - 3.6 + 0.2 - (-3.6) + (-(-1.8)) + 0.2$

- (A) 0.36
- (B) 0
- (C) 0.4
- (D) 0.48



Q19. (Geometry: Circles)

How many circles can be drawn through three collinear points?

- (A) 0
- (B) 1
- (C) As many as possible
- (D) 4

Q20. (Algebra)

If $x=4$, $y= -5$ and $z=6$ find the value of $3x+5+y-z(2)$

- (A) 4
- (B) 1
- (C) 0
- (D) 12

MATH

Q21. (Measurement)

What will be the perimeter of a regular pentagon of side 4.5 cm?

- (A) 20.5 cm
- (B) 21.5 cm
- (C) 22.5 cm
- (D) 23.5 cm

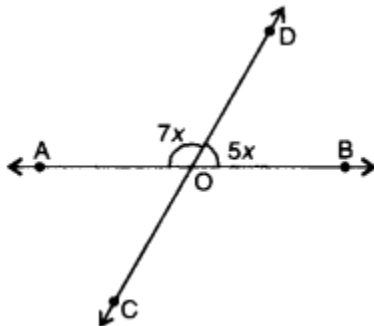
Q22. (Fractions)

Anuj had 240 trading cards. He gave $\frac{2}{8}$ of his cards to Sam and $\frac{1}{6}$ of his cards to Varun. How many cards did he give away altogether?

- (A) 120
- (B) 80
- (C) 88
- (D) 100

Q23. (Geometry : Lines and angles)

In the given figure, lines AB and CD intersect at O. Find the value of x.



- (A) 75°
- (B) 19°
- (C) 15°
- (D) 25°

Q24. (Large numbers)

$7,200 + 104$ is divisible by:

- (A) 11



(B)21

(C)17

(D) 19

Q25. (Geometry : Area and Perimeter)

A man takes one round of a park which is of square shape and travels 576 m. Find the side of the square park.

(A) 124 m

(B)144 m

(C)145 m

(D) 185 m

Q26. (Time)

Where will the hour hand of a clock stop if it starts from 8 and turns through 2 right angles?

(A) 8

(B) 4

(C) 2

(D) 12

Q27. (Mensuration)

The total cost of flooring a hall at ₹ 12.60 per sq. meter is ₹ 890. If the breadth of the hall is 11 meters, find its length.

(A) 7.8 m

(B) 6.9 m

(C)5.5 m

(D) 4.97 m

Q28. (Decimals)

The correct expanded form for 2.06 is:

(A) $(2 \times 10) + (6 \times \frac{2}{10})$

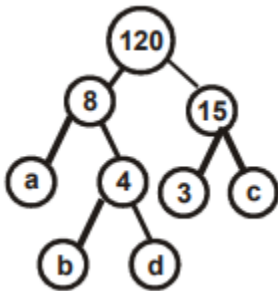
(B) $(2 \times 1) + (6 \times \frac{1}{10})$

(C) $(2 \times 1) - (6 \times \frac{1}{10})$

(D) $(2 \times 1) + (6 \times \frac{1}{100})$

Q29. (Factors: HCF and LCM)

Find the value of a, b,c, and d by looking at this tree diagram-



(A) $a= 2 \ b =6 \ c=2 \ d=5$

(B) $a= 2 \ b =2 \ c=5 \ d=2$

(C) $a= 3 \ b =1 \ c=4 \ d=3$

(D) $a= 2 \ b =2 \ c=3 \ d=4$

Q30. (Large numbers)

Write 6,20,000 in scientific notation-

(A) 6.2×10^5



(B) 62×10^5

(C) 62.2×10^4

(D) 6×20^4

Q31. (Geometry : Circles)

A circle has a radius of 8 cm. Find the length of the longest chord of this circle.

(A) 20 cm

(B) 64 cm

(C) 16 cm

(D) 4 cm

Q32. (Understanding elementary shapes)

How many edges does a tetrahedron have?

(A) 5

(B) 6

(C) 8

(D) 12

Q33. (Roman Numerals)

Which Roman digit is never written to the left of X to form a roman numeral?

(A) I

(B) V

(C) L

(D) X

Q34. (Algebra)

Calculate the sum of :

$$19x - (30y - 22y) \times 15 + (-22x) \div 11x$$

(A) $-120y + 17x$

(B) $20x + 12y$

(C) $80x - 120y$

(D) $12x - 127y$

Q35. (Mensuration)

How much soil will be taken out while digging a ditch 7m, 2.5 m broad and 1.5 m deep?

(A) 19.76 m^3

(B) 26.25 m^3

(C) 50.26 m^2

(D) 20.30 m

Achiever's Section

Q36. (Measurement)

A segment is 3 units long. It is divided into 9 parts. What fraction of a unit are 2 parts of the segment?

(A) $\frac{2}{9}$

(B) $\frac{1}{6}$

(C) $\frac{2}{3}$

(D) $\frac{3}{9}$

Q37. (Three dimensional objects)

Swati's bookshelf is 0.4 m long, 50 cm wide and 9 cm high. What is the volume of the bookshelf?

- (A) $3,400 \text{ cm}^3$
- (B) $18,000 \text{ cm}^3$
- (C) $56,200 \text{ cm}^3$
- (D) $1,40,000 \text{ cm}^3$

Q38. (Fractions)

Bob eats one full bar of chocolate. Then he divides another one into 7 equal parts and eats 2 of those parts. Count the total number of chocolates that he has eaten.

- (A) $6/8$
- (B) $4/5$
- (C) $9/10$
- (D) $9/7$

Q39. (Decimals)

The approximate value of $0.3 - (-0.66) - 0.66 - (-2.5) - 2(0.2) - 0.3$:

- (A) 1.3
- (B) 6
- (C) 2.1
- (D) 0.3

Q40. (Number system)

Statement I: A natural number is divisible by 8 and the number formed by last three digits is divisible by 8.

Statement II: 987648 is divisible by 8.

- (A) Both Statement-I and Statement-II are true .
- (B) Both Statement-I and Statement-II are false
- (C) Statement-I is true, but Statement-II is false
- (D) Statement-I is false, but Statement-II is true

Q41. (Geometry : Area and Perimeter)

In the given rectangle ABCD width is $(3x+2)$ m and length is $(2x+4)$ m, then find the perimeter.

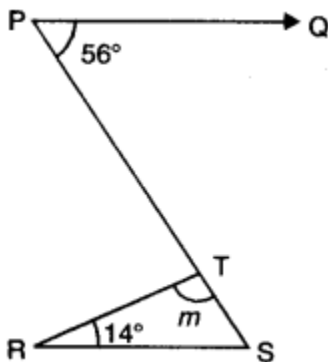


$2x+1$

- (A) $18x+6$
- (B) $7x+6$
- (C) $9x+3$
- (D) $10x+4$

Q42. (Geometry: Lines and angles)

In the given figure, if $PQ \parallel RS$, then find the measure of angle m .



- (A) 56°



- (B) 50°
- (C) 120°
- (D) 110°

Q43. (Time)

Riley and his sister went to a hockey game on Saturday. They left the house at 1:30 P.M. It took 30 minutes to drive to the hockey rink, and they arrived 1 hour before the game started. What time did the hockey game start?

- (A) 3:30 P.M
- (B) 1:00 P.M
- (C) 3:00 P.M
- (D) 2:00 P.M

Q44. (Factors : HCF and LCM)

Find the least number that is completely divisible by 28 and 42?

- (A) 28
- (B) 84
- (C) 14
- (D) 66

Q45. (Geometry : Circles)

How many arcs are to be drawn to construct an angle of 90° .

- (A) 4
- (B) 5
- (C) 3
- (D) 6

ANSWERS

Logical Reasoning

1. c

2. a

3. b

4. c

5. c

Mental math

6. b

7. c

8. b

9. a

10. b

11. b

12. c

13. a

14. a

15. c

16. b

17. b

18. c

19. b

20. c



Math

21. d

22. d

23. c

24. a

25. b

26. c

27. d

28. d

29. b

30. a

31. c

32. b

33. b

34. a

35. b

Achiever's Section

36. c

37. b

38. d

39. c

40. a

41. d

42. d



43. c

44. b

45. b