

Grade
5

M-CAT Assessment Round Sample Question Paper

Return the answer sheet along with question paper to the invigilator at the end of the exam.



TOTAL MARKS
100



QUESTIONS
50



DURATION
60 mins



Instructions for Student:

- Read the question carefully before answering.
- Each question has 4 options (A, B, C & D).
- Choose one correct option as your answer, from the 4 options.
- Every question carries 2 marks.
- On the answer sheet blacken the correct option against the corresponding question number,

The Correct Method

Q.	Answer
1	(A) (B) ● (D)

The Wrong Methods

Q.	Answer
1	(A) ● ● (D)
1	(A) (B) ● (D)
1	(A) (B) ✓ (D)
1	(A) (B) ✗ (D)

- Use pencil to mark your answer.
- If you wish to change your answer, erase the previous mark completely.

1. Find the face value of 0 in 36,04,85,298.

- a. 10,00,000
- b. 1,00,000
- c. 0
- d. None of these

2. Solve: $84 \div [(3 \times 7) + 5 - 10 \times 2]$

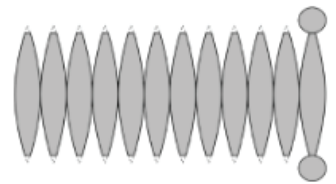
- a. 2.6
- b. 4
- c. 14
- d. 24

3. Find the missing number: $3 \times ? + 6 = 8$

- a. $\frac{1}{3}$
- b. $\frac{2}{3}$
- c. $\frac{3}{2}$
- d. 3

4. Which of the following shapes does the net shown alongside represent?

- a. Cube
- b. Cone
- c. Cylinder
- d. Sphere



5. Which of the following represents the successor of 3 tenths 5 thousandths written in decimals?

- a. 1.35
- b. 1.305
- c. 0.35
- d. 0.305

6. For calculation, numbers with different units of measurement are converted into similar units. Which of the following is TRUE for such conversions?

- a. When we convert larger units to smaller units, we multiply.
- b. When we convert smaller units to larger units we divide.
- c. Both a and b.
- d. None of the above.

7. Which of the following represents the lowest fraction equivalent to 132%?

- a. $\frac{62}{75}$
- b. $\frac{33}{25}$
- c. $\frac{34}{25}$
- d. $\frac{39}{50}$

8. How many lines of symmetry does the given figure have?

- a. 1
- b. 2
- c. 3
- d. 4



9. What is the coefficient of the variable y in the expression $(4t - 2y + 12 + 2t + 3y - 8)$?

- a. -1
- b. 1
- c. 6
- d. -6

10. Rishabh has travelled 2,47,632 km in a year. How much distance will he travel in 3 years, if he continues to travel the same way? Estimate to ten thousand place value.

- a. 2,40,000 km
- b. 5,00,000 km
- c. 7,40,000 km
- d. 10,00,000 km

- a. ₹ 1,65,000 b. ₹ 3,00,000
c. ₹ 4,65,000 d. ₹ 82,500

a. ₹ 590
b. ₹ 510
c. ₹ 420
d. ₹ 400

- a. $7ab$ and $10ab$
b. $12mn$ and $5mn$
c. $4x$ and x^2
d. $8y$ and $2y$

- a. 1 b. 2
c. 0 d. None of these

- [illegible]

- 17:30 hours
- 18:55 hours
- 18:30 hours
- 17:5 hours



- Triangles can be classified into acute, right, and obtuse based on the angles formed by them.
- Triangles can be classified into equilateral, isosceles, and scalene based on the angles formed by them.
- A shape is called symmetric if it can be divided into two or more identical pieces.
- None of the above

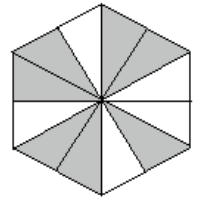
18. Divide the fraction of the non-shaded portion by the shaded portion of the given figure:

a. $\frac{35}{144}$

b. $\frac{1}{12}$

c. $\frac{5}{7}$

d. $\frac{7}{5}$



19. In the number 1,89,485, how many times is the value of 8 in the ten thousand's place greater compared to the value of 8 in the ten's place?

a. 10

b. 1000

c. 100

d. 10000

20. How many years does it take to get an amount of ₹ 60,000, if ₹ 50,000 is invested at 2% p.a. simple interest?

a. 3 years

b. 5 years

c. 7 years

d. 10 years

21. A contractor sent 7695940 bricks for the construction of 70 chambers. If an equal number of bricks were required for each chamber, how many bricks were used for each chamber?

a. 99762

b. 148762

c. 59642

d. 109942

22. Ankit spent ₹ 35,000 on raw materials to make a table. He sold the table to Anusha at a 10% loss. What is the selling price of the table for Ankit?

a. ₹ 3,500

b. ₹ 31,500

c. ₹ 35,000

d. Cannot Say

23. Which of the following is a proper fraction?

a. $\frac{4}{3}$

b. $\frac{16}{9}$

c. $\frac{11}{23}$

d. $\frac{28}{15}$

24. Three city buses leave the bus stop at 9.00 a.m. Bus A returns every 30 minutes, bus B returns every 20 minutes and bus C returns every 45 minutes. At what time will all the buses will return at the same time to the bus stop?

a. 1:00 p.m.

b. 12:00 noon

c. 7:00 p.m.

d. 11:30 p.m.

25. Which of the following is TRUE about the unitary method?

a. Value of many units = Number of units $\times$ Value of single unit

b. Value of many units = $\frac{\text{Number of units}}{\text{Value of single unit}}$

c. Value of one unit = Number of units $\times$ Value of single unit

d. None of the above

26. Which of the following is the same as $11\frac{3}{5} \times 15$?

a. $11 \times \frac{45}{5}$

b. $55 \times \frac{45}{5}$

c. $165 \times \frac{45}{5}$

d. 58×3

27. What is the value of $\frac{8}{10} + \frac{108}{100} + \frac{345}{1000}$?

- a. 15.262
- b. 16.225
- c. 16.252
- d. 16.255

28. Sudha is trying to fit a bed into a corner of her room. She knows that the walls and the floor of the room are perfectly straight. What is the measure of the angle of a corner of the room?

- a. 0°
- b. 60°
- c. 90°
- d. 120°

29. How many edges, vertices, and faces do both cubes and cuboids have?

- a. 12 edges, 8 vertices, and 7 faces
- b. 13 edges, 8 vertices, and 6 faces
- c. 12 edges, 7 vertices, and 6 faces
- d. 12 edges, 8 vertices, and 6 faces

30. Arrange the following numbers in descending order of value:

736,382,739; 773,838,730; 736,382,987; 736,383,920

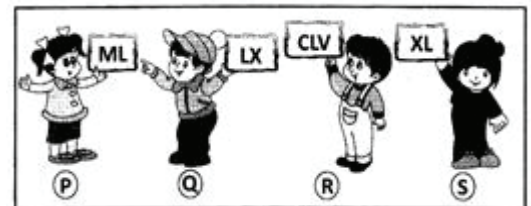
- a. $773,838,730 > 736,383,920 > 736,382,987 > 736,382,739$
- b. $773,838,730 > 736,382,987 > 736,382,739 > 736,383,920$
- c. $736,383,920 > 773,838,730 > 736,382,987 > 736,382,739$
- d. $773,838,730 > 736,382,739 > 736,383,920 > 736,382,987$

31. A car runs for 3 hours at a speed of 75 kilometres per hour and the next 2 hours at a speed of 95 kilometres per hour. Find the average speed of the car for the 5-hour journey.

- a. 83 km/h
- b. 85 km/h
- c. 87 km/h
- d. 89 km/h

32. Observe the given figure. Who has the largest number?

- a. R
- b. Q
- c. P
- d. S



33. Find the greatest number that divides 30, 45, and 40 without leaving any remainder.

- a. 30
- b. 15
- c. 3
- d. 5

34. A fruit seller bought mangoes for ₹ 250 per kg, apples for ₹ 200 per kg, and grapes for ₹ 150 per kg. What is the total cost of 2 kg mangoes, 1 kg apple, and 3 kg grapes?

- a. ₹ 600
- b. ₹ 1,150
- c. ₹ 700
- d. ₹ 2,500

35. Meena stopped the milk delivery for 15 days. She resumed the services again on 24th May. On which date did she stop the service?

- a. 9th May
- b. 10th May
- c. 9th June
- d. 10th June

36. Which of the following is TRUE about the BODMAS rule?

- a. In the BODMAS rule, brackets are used to group the terms.
- b. In the BODMAS rule, the general order of operations of brackets is $\{ (()) \}$.
- c. When many mathematical operations are involved in a problem, we use the BODMAS rule which defines the order of operations.
- d. All of the above

37. A shopkeeper sold 12.750 kg of sugar on a day 1, 38.250 kg of sugar on day 2 and 50.500 kg of sugar on day 3. How much sugar is left with the shopkeeper if initially he had 150 kg of sugar?

- a. 101.5 kg
- b. 48.5 kg
- c. 102.5 kg
- d. 41.5 kg

38. The area of a rectangular garden is 36000 m^2 . If the length of the garden is 360 m, then what is the perimeter of the garden?

- a. 460 m
- b. 360 m
- c. 720 m
- d. 920 m

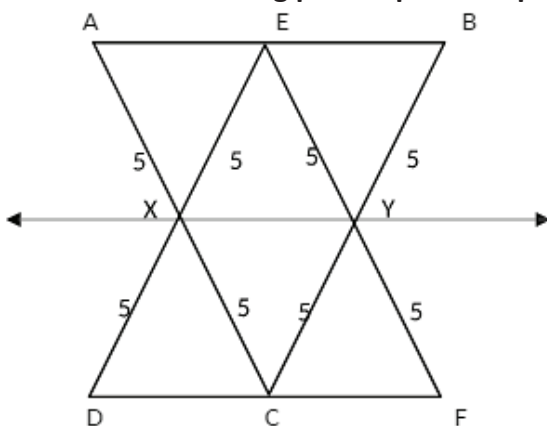
39. Simplify: $5 + 123x + 45y - 11 + 21y - 57x - 5$

- a. $121xy$
- b. $180x + 66y - 11$
- c. $66x + 66y - 11$
- d. None of these

40. There are 60 insects in a miniature garden. 12 of the insects are ladybirds and $\frac{1}{4}$ of them are butterflies. The rest of the insects are ants. What fraction of the insects in the garden are ants?

- a. $\frac{1}{3}$
- b. $\frac{27}{20}$
- c. $\frac{11}{20}$
- d. $\frac{3}{4}$

41. Which of the following pairs represents parallel lines according to the given figure?



- a. (Segment AB, Segment DF)
- b. (Segment AB, Segment AC)
- c. (Segment EF, Segment DF)
- d. (Segment ED, Segment DF)

42. A 12cm deep rectangular container is 10 cm wide and 17 cm long. It is half filled with rice. How many cubic centimetre of rice is there in the container?

- a. 1020 cm^3
- b. 2040 cm^3
- c. 510 cm^3
- d. 4080 cm^3

43. Are multiples of 7 always odd? Justify your answer.

- a. True
- b. False, 7 has always even multiples.
- c. False, 7 has both odd and even multiples.
- d. Cannot be determined

44. Reema pours 2 L 250 mL of juice equally into 9 glasses. How much juice is there in each glass?

- a. 600 mL
- b. 300 mL
- c. 250 mL
- d. 150 mL

45. Ritu distributes 40 chocolates amongst her students. She is now left with 10 chocolates. What percentage of the total chocolates did Ritu distribute among her students?

- a. 80%
- b. 20%
- c. 40%
- d. 60%

46. There are 152 students in a class. Each student contributes ₹ 40 for planting trees around the school. If planting one tree costs ₹ 20, how many trees can be planted with the money collected from the students?

- a. 208
- b. 308
- c. 304
- d. 405

Answer questions 47 – 50 based on the information given below:

The given pictograph gives information about the number of students in various activity clubs of a school.

Club	Number of students
Chess Club	     
Music Club	         
Language Club	  
Math & Puzzle Club	        

Key:  = 3 girls and  = 4 boys

47. Which clubs have the same number of boys?

- a. Chess Club and Music Club
- b. Chess Club and Language Club
- c. Chess Club and Math & Puzzle Club
- d. Music Club and Language Club

48. Which of the following clubs has the maximum number of girls?

- a. Chess Club
- b. Math & Puzzle Club
- c. Music Club
- d. Language Club

49. Which club has the minimum number of students enrolled?

- a. Math & Puzzle Club
- b. Music Club
- c. Chess Club
- d. Language Club

50. How many more enrolments does the Chess Club need to have the same number of students as the Music Club?

- a. 15
- b. 20
- c. 25
- d. None of these

