

# OLYMPIAD Mock Test

# 1

Name : \_\_\_\_\_

Number of Questions : 40

Max. Marks : 40

Time : 2 Hours

There is no negative marking in the test.

1. Simplify:  $765 + 65 + 70 - 45 - 35$ .

(a) 820                      (b) 870  
(c) 780                      (d) 990

2. Fill in the blank with appropriate number from the options given below.

$$5 \times 300 = (5 \times \square) \times 100$$

(a) 1                          (b) 10  
(c) 3                          (d) 4

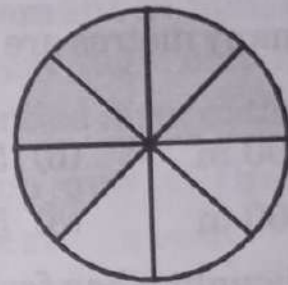
3.  $\frac{5}{7}$  of 49 is

(a) 35                        (b) 36  
(c) 46                        (d) 47

4. Division of two digit smallest number by smallest even number is?

(a) 10                        ~~(b) 5~~  
(c) 20                        (d) 40

5. Find the fraction of unshaded part of the given figure?

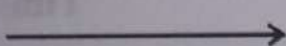

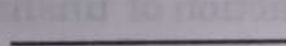


(a)  $\frac{4}{7}$                         (b)  $\frac{5}{8}$

(c)  $\frac{3}{8}$                         (d)  $\frac{3}{7}$

6. What is the difference between the face and place value of 5 in the number, 45632?

(a) 4995                      (b) 4985  
(c) 4975                      (d) 4945

7. The expanded form of the number 55432 is
- (a)  $50000 + 5400 + 432$   
 (b)  $50000 + 5000 + 400 + 30 + 2$   
 (c)  $50000 + 5000 + 4000 + 32$   
 (d)  $8 + 7 + 6 + 0 + 5$
8. Which of the following is a line?
- (a)   
 (b)   
 (c)   
 (d) All of these
9. How many metres are there in 5 km 60 m?
- (a) 5600 m      (b) 5800 m  
 (c) 5060 m      (d) 5900 m
10. Peter bought a bag for ₹ 145.75 and an instrument for ₹ 23.25. How much money did he pay?
- (a) ₹ 170      (b) ₹ 169  
 (c) ₹ 159      (d) ₹ 149
11. Total rotation of second hand of a watch in 30 minutes is
- (a) 30      (b) 40  
 (c) 20      (d) 17
12. The cost of 19 pens is ₹ 247. Find the cost of 30 such pens.
- (a) ₹ 380      (b) ₹ 370  
 (c) ₹ 390      (d) ₹ 320
13. Solve :  $2735 + 5237 - 3756$
- (a) 7972      (b) 4216  
 (c) 2729      (d) 3175
14. A plane figure has four vertices and four equal sides. Which one of the following is the name of the figure?
- (a) Square  
 (b) Equilateral triangle  
 (c) Parallelogram  
 (d) Pentagon
15. Replace the question mark with a number given in the options below.  
 $56 + 47 - 23 = 89 + 5 - ?$
- (a) 19      (b) 18  
 (c) 14      (d) 10
16. A figure does not have height, width and length. If it has a place then which one of the following is the name of the figure?
- (a) A point  
 (b) A line segment  
 (c) A line  
 (d) A ray

Mock Test-1

17. Convert 734 centimetres in millimetres.

- (a) 7340
- (b) 73.40
- (c) 0.7340
- (d) All of these

18. Priya ate  $\frac{2}{5}$  of a pizza. What fraction of the pizza is left?

- (a)  $\frac{2}{5}$
- (b)  $\frac{3}{5}$
- (c) 3
- (d) 2

19. Match the columns.

**Column-I**

**Column-II**

- (A) 45 kilometres
  - (B) 45 litre
  - (C) 45 metre
  - (D) 45 kilograms
- (1) 45000 millilitres
  - (2) 4500 centimetre
  - (3) 45000 grams
  - (4) 45000 metres

- |     |   |   |   |   |     |   |   |   |   |
|-----|---|---|---|---|-----|---|---|---|---|
| A   | B | C | D | A | B   | C | D |   |   |
| (a) | 4 | 2 | 1 | 3 | (b) | 3 | 1 | 2 | 4 |
| (c) | 4 | 1 | 2 | 3 | (d) | 3 | 2 | 1 | 4 |

20. Smriti bought 3m 5 cm ribbon of red colour and 2 m 13 cm ribbon of blue colour. What is the total length of ribbons?

- (a) 1 m 8 cm
- (b) 8 m 15 cm
- (c) 5 m 63 cm
- (d) 5 m 18 cm

21. The sum of place value and face value of digit 6 in the number 4786239 is

- (a) 60,060
- (b) 6239
- (c) 6006
- (d) 6200

22. Consider the following two statements:

**Statement 1:** Sum of digits of a number is its expanded form.

**Statement 2:** Sum of place value of every digit of a number is the expanded form of that number.

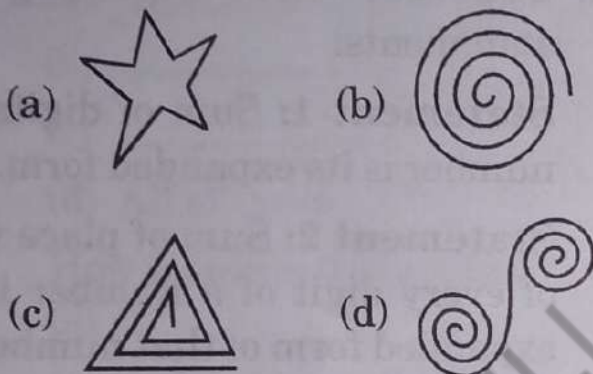
Which one of the following is correct about the above statements?

- (a) Statement 1 is false and 2 is true.
- (b) Statement 1 is true and 2 is false.
- (c) Both statements 1 and 2 are false.
- (d) Both statements 1 and 2 are true.

23. If a line with fixed length is called line segment, then a figure which has a starting point and extends in one direction is called

- (a) ray (b) point  
(c) line (d) all of these

24. Which of the following is a closed figure?



25. Consider the following statements.

**Statement 1 :** We can compare 23 litre and 52 kilograms.

**Statement 2 :** All the faces of a cube are squares.

Now, which of the following is correct about the statements.

- (a) Statement 1 is true and 2 is false.  
(b) Statement 1 is false and 2 is true.

- (c) Both statements 1 and 2 are true.  
(d) Both statements 1 and 2 are false.

26. Which of the following are like fractions.

- (a)  $\frac{1}{3}$  and  $\frac{3}{4}$  (b)  $\frac{1}{4}$  and  $\frac{4}{7}$   
(c)  $\frac{2}{7}$  and  $\frac{3}{7}$  (d)  $\frac{7}{2}$  and  $\frac{2}{3}$

27. The cost of 4 pens is ₹ 67. What is the cost of 5 such pens?

- (a) ₹ 83.75 (b) ₹ 82  
(c) ₹ 80 (d) ₹ 75.80

28. The cost of one notebook is ₹13.25. How much money did the Miriam pay to the shopkeeper for 9 notebooks?

- (a) ₹ 122.25 (b) ₹ 119.25  
(c) ₹ 130 (d) ₹ 141.25

29. If the cost of 6 balloons is ₹ 9 and cost of 9 kites is ₹ 12, then how much you pay to the shopkeeper for 2 balloons and 3 kites?

- (a) ₹ 7 (b) ₹ 4  
(c) ₹ 8 (d) ₹ 3



36. David's football game starts at 10:00 a.m. and ends at 2:25 p.m. How long does David's game last?

- (a) 2 hours twenty five minutes  
 (b) Three hour twenty five minutes  
 (c) Four hour twenty five minutes  
 (d) Four hour thirty five minutes

37. How many mugs of water with capacity 500 ml are needed to fill a 5 litre bucket?

- (a) 7 (b) 10  
 (c) 8 (d) 9

38. Ritu ate  $\frac{3}{7}$  and Priya ate  $\frac{2}{7}$  of the sweets. How much sweets did they eat altogether?

- (a)  $\frac{6}{7}$  (b)  $\frac{5}{7}$   
 (c)  $\frac{1}{7}$  (d)  $\frac{4}{7}$

**DIRECTIONS (Qs. 39 & 40):** Mr. Bee collected some flowers to make a bouquet. He made a list of flower is used in the bouquet as given below.

Flower	Tally marks
Rose	<del>    </del>
Lily	<del>    </del> <del>    </del>
Sunflower	
Daisy	<del>    </del>
carnations	<del>    </del>

39. How many Roses he used ?

- (a) 6 (b) 7  
 (c) 8 (d) 9

40. Which flower was used the most times ?

- (a) Rose (b) Sunflower  
 (c) Lily (d) Daisy

## MOCK TEST-1

### ANSWERS KEY

1.	(a)	9.	(c)	17.	(a)	25.	(b)	33.	(c)
2.	(c)	10.	(b)	18.	(b)	26.	(c)	34.	(c)
3.	(a)	11.	(a)	19.	(c)	27.	(a)	35.	(c)
4.	(b)	12.	(c)	20.	(d)	28.	(b)	36.	(c)
5.	(c)	13.	(b)	21.	(c)	29.	(a)	37.	(b)
6.	(a)	14.	(a)	22.	(a)	30.	(a)	38.	(b)
7.	(b)	15.	(c)	23.	(a)	31.	(b)	39.	(c)
8.	(b)	16.	(a)	24.	(a)	32.	(a)	40.	(c)

1. (a)  $765 + 65 + 70 - 45 - 35$   
 $= 830 + 70 - 45 - 35$   
 $= 900 - 45 - 35$   
 $= 855 - 35$   
 $= 820$

2. (c)  $5 \times 300 = 1500$   
 $(5 \times 3) \times 100 = 15 \times 100$   
 $= 1500$

3. (a)  $\frac{5}{7}$  of 49  $= \frac{5}{7} \times 49$   
 $= 35$

4. (b) Two digit smallest number = 10  
 Smallest even number = 2  
 Division  $= \frac{10}{2}$   
 Quotient = 5

5. (c) Total parts = 8  
 Unshaded part = 3  
 Fraction  $= \frac{3}{8}$

6. (a) Given number = 45,632  
 Face value of 5 = 5  
 Place value of 5 = 5,000  
 Difference =  $5000 - 5 = 4995$

7. (b)  $55432$

expanded form of  $55432 = 50000 + 5000 + 400 + 30 + 2$

8. (b) Line extends in both directions without end.

## Hints & Explanations

9

9. (c)  $\because$  1 kilometre = 1000 metres  
 $\therefore$  5 km 60 m =  $5 \times 1000 \text{ m} + 60 \text{ m}$   
 = 5060 m.

- 10 (b) Cost of a bag = ₹ 145.75  
 Cost of an instrument = ₹ 23.25  
 Total money paid by peter =  
 ₹ (145.75 + 23.25) = ₹ 169.00.

11. (a)  $\because$  Rotation of second hand of a watch in 1 minute = 1  
 $\therefore$  Rotation of second hand of a watch in 30 minutes  
 =  $1 \times 30 = 30$ .

12. (c)  $\because$  The cost of 19 pens = ₹ 247  
 $\therefore$  The cost of 1 pen =  $\frac{247}{19} = ₹ 13$   
 $\therefore$  The cost of 30 pens  
 = ₹  $13 \times 30 = ₹ 390$ .

- 13 (b)  $2735 + 5237 - 3756$   
 =  $7972 - 3756$   
 = 4216

14. (a) A square has four vertices and four equal sides.

15. (c) Given,  $56 + 47 - 23 = 89 + 5 - ?$   
 $103 - 23 = 89 + 5 - ?$   
 $80 = 94 - ?$

Subtracting 14 from 94, we get 80.

16. (a) A point does not have height, width and length but it has a place.

17. (a)  $\because$  1 centimetre = 10 millimetres  
 $\therefore$  734 centimetres =  $734 \times 10$   
 = 7340 millimetres.

18. (b) Total parts of pizza = 5  
 Parts eaten by Priya = 2  
 Parts left = 3

$$\therefore \text{Fraction of the pizza left} = \frac{3}{5}$$

19. (c) (A)  $\rightarrow$  4, (B)  $\rightarrow$  1, (C)  $\rightarrow$  2, (D)  $\rightarrow$  3

20. (d) Length of red ribbon = 3m 5 cm  
 Length of blue ribbon = 2m 13cm  
 Total length of ribbons =

m	cm
3	05
+	2 13
5 m 18 cm	

21. (c)  $4786239$
- 

Place value of digit 6 is 6000.

Face value of 6 is 6

$$\therefore \text{Sum} = 6000 + 6 = 6006$$

22. (a) Sum of place value of digits of a number is its expanded form.



23. (a) Figure which has a starting point and extends in one direction is called ray.

24. (a)

25. (b) We cannot compare as litre is a unit of volume and kilogram is a unit of weight.

26. (c)  $\frac{2}{7}$  and  $\frac{3}{7}$  have same denominator.

27. (a)  $\therefore$  Cost of 4 pens = ₹ 64

$$\therefore \text{Cost of 1 pen} = \frac{64}{4}$$

$\therefore$  Cost of 5 pens

$$= \frac{64}{4} \times 5 = ₹ 80$$

28. (b) Cost of 1 note book = ₹ 13.25

Cost of 9 note books

$$= 9 \times 13.25 = ₹ 119.25$$

29. (a)  $\therefore$  Cost of 6 balloons = ₹ 9

$$\therefore \text{Cost of 1 balloon} = ₹ \frac{9}{6}$$

$\therefore$  Cost of 2 balloons

$$= \frac{9}{6} \times 2 = ₹ 3$$

Again,

$\therefore$  Cost of 9 kites = ₹ 12

$$\therefore \text{Cost of 1 kite} = ₹ \frac{12}{9}$$

$$\therefore \text{Cost of 3 kites} = \frac{12}{9} \times 3 = ₹ 4$$

Total money paid to the shopkeeper = ₹ 3 + ₹ 4 = ₹ 7.

$$\begin{aligned} 30. \text{ (a) Third angle} &= 180^\circ - (45^\circ + 56^\circ) \\ &= 180^\circ - 101^\circ = 79^\circ \end{aligned}$$

31. (b) There are 8 triangles in the given figure.

32. (a) The figure is divided into 8 equal parts.

$$\text{Fraction for shaded part} = \frac{3}{8}$$

33. (c) Total questions = 40

Marks for questions carry 2 marks =  $30 \times 2 = 60$

Marks for questions carry 4 marks =  $10 \times 4 = 40$

Total marks =  $60 + 40$

= 100 marks.

34. (c) JKL

$$35. \text{ (c) } \frac{3}{9} = \frac{1}{3}, \frac{2}{6} = \frac{1}{3}, \frac{4}{12} = \frac{1}{3}$$

$$\text{But } \frac{8}{10} = \frac{4}{5}$$

36. (c) If David's game starts at 10:00 a.m. in the morning, then by 2:25 p.m. he would have played for four hour twenty five minutes.

## Hints & Explanations

11

37. (b) Capacity of mug = 500 ml

Capacity of bucket = 5ℓ

= 5000 ml

Number of mugs needed

=  $5000 \div 500 = 10$

38. (b) Ritu ate sweets =  $\frac{3}{7}$

Priya ate sweets =  $\frac{2}{7}$

They ate together =  $\frac{3}{7} + \frac{2}{7} = \frac{5}{7}$

(Sol. 39-40):

39. (c) Since,  $\text{||||} = 8$

He used 8 roses.

40. (c) Since, Lily was used the most times, i.e., 12 times.