

CLASS 5 MATHEMATICS

SAMPLE QUESTION PAPERS WITH ANSWERS

HALF YEARLY EXAMINATION

Time: 2 hrs

Marks: 50

**Choose the correct answer from the brackets (1 mark)**

1. 100 lakh = ----- (hundred, crore, ten thousand)
2. Two times of a right angle is ----- ( $45^\circ$ ,  $90^\circ$ ,  $180^\circ$ )
3. The highest common factor of 36 and 24 is ----- (12, 24, 36)
4. The place value of 3 in 456321 is ----- (30, 300, 3000)
5. 50 paise is ----- part of one rupees. ( $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$ )

**Fill in the blanks (1 mark)**

6. ----- is a factor of all numbers.
7. If the speed of the boat is 15km/hour, then the boat goes ----- km in 4 hours.
8. 6 hours a day is ----- part of a day.
9. A number or word which can be read the same in both ways are called-----
10. When we open a cube, we will get ----- number of squares.

**Answer the following(2 mark)**

11. Find the LCM of 5 and 6.
12. Suhara took a loan of Rs. 25000 for buying a laptop. They paid back a total of Rs. 36000 in one year. How much did they pay back every month?
13. Write four equivalent fractions of  $\frac{2}{3}$ .
14. Find the perimeter and area of a rectangle whose length and breadth are 8 and 2 respectively.
15. Write the secret number.

\* It is larger than half of 100.

\*It is less than 6 tens and more than 5 tens.

\* The ones digit is two more the tens digit.

\* Together the digits have sum of 12.

16. Cost of 1 kg apple is Rs 100. How much kilograms of apple can buy with Rs 500?

17. Find:

a) One fourth of 24

b) Three fourth of 40.

18. Write the number name and expanded form of 475124.

19. Write in ascending order.

231246, 231423, 231123, 231146

20. Write the numeral for the following:

50000 + 4000+ 20+ 300

**Answer the following (3 mark)**

21. If fresh fish is dried it becomes  $\frac{2}{7}$  of its weight. In a week Sonu plans to dry 490 kg of fresh fish. Then how much dried fish will she get in a month ?

22. A rectangular garden of dimensions 36 m and 30 m needs to be fenced. Find the length of fencing required? What will be the cost of fencing at Rs 100 per m?

23. A farmer sells one litre of milk for Rs 22. In one month he sells 200 litres of milk. How much does he earn in a month? How much does he earn in a year?

24. Find the HCF of 16 and 24.

**Answer the following (4 mark)**

25. Price per kg of some fruits is given below.

Item	Cost per kg
Apple	120
Grapes	100
Orange	90
Pineapple	85

Find the cost of

- a)  $1\frac{3}{4}$  kg of apple
- b)  $2\frac{1}{2}$  kg of grapes
- c)  $3\frac{1}{4}$  kg of oranges
- d) 3 kg of pineapples

26. Construct the following angles using a protractor.

$25^\circ, 120^\circ, 90^\circ, 75^\circ$

**Answers:**

- 1. Crore
- 2.  $180^\circ$
- 3. 12
- 4. 300
- 5.  $\frac{1}{2}$
- 6. One
- 7. 60km
- 8.  $\frac{1}{4}$
- 9. Palindromes
- 10.6
- 11. Multiples of 5 are 5, 10, 15, 20, 25, 30, 35.....
- Multiples of 6 are 6, 12, 18, 24, 30, 36, 42.....
- LCM = 30
- 12. One year = 12 months
- Amount she paid back to the bank in one year =Rs 36000
- Amount paid back in every month =  $36000 \div 12 = \text{Rs } 3000$
- 13. Equivalent fractions of  $\frac{2}{3}$  are  $\frac{2}{3}, \frac{4}{6}, \frac{6}{9}, \frac{8}{12}$

14. Given length = 8 cm

Breadth = 2 cm

Perimeter =  $2(l+b) = 2 \times (8 + 2) = 2 \times 10 = 20$  cm

Area =  $l \times b = 8 \times 2 = 16$  square cm

15. 57

16. Cost of 1 kg apple = 100

So we can buy 5 kg of apple with Rs 500

17. One fourth of 24 =  $\frac{1}{4}$  of 24 =  $\frac{1}{4} \times 24 = 6$

Three fourth of 40 =  $\frac{3}{4}$  of 40 =  $\frac{3}{4} \times 40 = 30$

18. 4, 75,124

Number name: Four lakh seventy five thousand one hundred twenty four.

Expanded form: 400000 + 70000 + 5000 + 100 + 20 + 4

19. 231123, 231146, 231246, 231423

20. 54320

21. If fresh is dried it becomes  $\frac{2}{7}$  of its weight.

If he dry 490 kg of fresh fish, the weight of dried fish =  $\frac{2}{7} \times 490 = 140$  kg (in one week)

So the weight of dried fish he will get in one month =  $140 \times 4 = 560$  kg

22. Given length = 36 m

Breadth = 30 m

Length of fencing = perimeter =  $2(l+b) = 2(36 + 30) = 2 \times 66 = 132$  m

Cost of fencing at the rate of Rs 100 per metre =  $132 \times 100 = \text{Rs } 13200$

23. Cost of one litre of milk = Rs 22

In one month he sells 200 litres of milk.

Cost of 200 litres of milk =  $200 \times 22 = \text{Rs } 4400$

So earning in one month = Rs 4400

Earning in one year =  $4400 \times 12 = \text{Rs } 52800$

24. We have to find out the HCF of 16 and 24.

Factors of 16 are 1,2,4,8,16.

Factors of 24 are 1,2,3,4,6,8,12,24.

Common factors are 1,2,4,8.

HCF = 8

25. a) Cost of 1 kg of apple = RS 120

Cost of  $\frac{3}{4}$  kg of apple =  $120 \times \frac{3}{4} = \text{Rs } 90$

So cost of  $1\frac{3}{4}$  kg apple =  $120 + 90 = \text{Rs } 210$

b) Cost of 1 kg grapes =Rs 100

Cost of  $\frac{1}{2}$  kg grapes =Rs 50

Cost of  $2\frac{1}{2}$  kg grapes =  $2 \times 100 + 50 = \text{Rs } 250$

c) Cost of 1 kg orange = Rs 90

Cost of  $\frac{1}{4}$  oranges =Rs 22.5

Cost of  $3\frac{1}{4}$  oranges =  $3 \times 90 + 22.5 = 270 + 22.5 = \text{Rs } 292.50$

d) Cost of 1 kg pineapple = Rs 85

Cost of 3 kg pineapple =  $3 \times 85 = \text{Rs } 255$

26. Do the construction

