

SAMPLE PAPER
HALF YEARLY EXAMINATION - 2026-27
CLASS - V
SUBJECT - MATHEMATICS

Time: 2 hours 30 minutes

Maximum marks: 60

No. of Pages: 7

No. of Qs: 32

General Instructions:

This question paper consists of four sections A, B, C and D.

- **Section A: (Q1 - 15) has 15 multiple choice questions carrying 1 mark each.**
- **Section B: (Q16 - 25) has 10 questions carrying 2 marks each.**
- **Section C: (Q26 - 30) has 5 questions carrying 3 marks each.**
- **Section D: (Q31 & 32) has 2 questions carrying 5 marks each.**
- **All questions are compulsory. However, internal choices are provided for some questions.**
- **Show all necessary steps in calculations. Marks for each step will be given.**

SECTION-A

Choose the correct option:

1. Which of the following statements is true about an isosceles triangle?

- | | |
|---------------------------------|---------------------------------|
| a) All three sides are equal. | c) No sides are equal. |
| b) Exactly two sides are equal. | d) It always has a right angle. |

2. Select the number that satisfies all these clues.

- It is a multiple of 2
- It is a multiple of 3
- It is a factor of 12

- | | |
|------|------|
| a) 1 | c) 6 |
| b) 4 | d) 8 |

3. Identify the pair in which one fraction is the reciprocal of the other.

- | | |
|-----------------------------------|------------------------------------|
| a) $\frac{7}{9}$, $1\frac{1}{2}$ | c) $\frac{17}{6}$, $2\frac{5}{6}$ |
| b) $\frac{3}{5}$, $\frac{3}{5}$ | d) $1\frac{1}{3}$, $\frac{3}{4}$ |

4. How many odd numbers are there between 30 and 60?

- | | |
|-------|-------|
| a) 14 | c) 16 |
| b) 15 | d) 17 |

5. The prime factorisation of 48 is _____.

- | | |
|-----------------------------------|--|
| a) $2 \times 2 \times 2 \times 6$ | c) $2 \times 2 \times 2 \times 3 \times 3$ |
| b) $2 \times 2 \times 12$ | d) $3 \times 2 \times 2 \times 2 \times 2$ |

6. Siya and Aman are playing with 0-9 number cards. They shuffle the cards and divide them equally. Aman makes a 5-digit number using his cards as shown below.



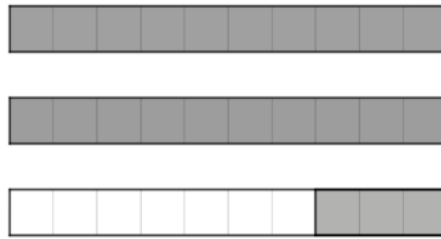
Siya placed four of her cards as shown in the picture below.



Where should she place the remaining card to form a number greater than the number formed by Aman?

- a) After 9
b) Before 0
c) Between 5 and 7
d) Between 7 and 9
7. The difference between a million and a thousand is _____.
- a) 9,990
b) 99,900
c) 999,000
d) 9,990,000
8. The place value of the digit 3 in 6.935 is _____.
- a) 3 tens
b) 3 tenths
c) 3 hundredths
d) 3 thousandths
9. Radhika has a square grid paper with 20 equal squares. Her teacher asks her to colour $\frac{1}{4}$ of the squares. How many squares should Radhika colour?
- a) 5 squares
b) 4 squares
c) 10 squares
d) 15 squares
10. The decimal form of $\frac{98}{1000}$ is _____.
- a) 0.98
b) 0.098
c) 0.0098
d) 9.8
11. Riya says, "I am thinking of a fraction whose numerator is 11 and denominator is 9." What kind of fraction is she thinking of?
- a) Proper fraction
b) Improper fraction
c) Mixed fraction
d) Unit fraction

12. Observe the figure given below and write the decimal represented by the shaded part.

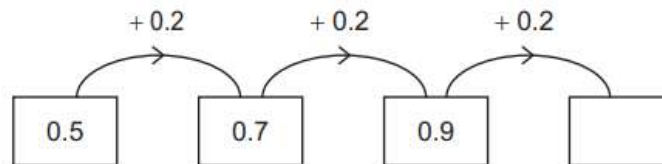


- [illegible]

13. What should be subtracted from 10 to get 8.4?

- [illegible]

14. Here is part of a sequence. The sequence continues in the same way. Identify the missing number in the box.



- a) 0.11 c) 1.0
b) 1.8 d) 1.1

15. Which set of line segments can form a triangle?

- a) 3 cm, 5 cm, 8 cm
b) 5 cm, 2 cm, 10 cm
c) 9 cm, 4 cm, 8 cm
d) 2 cm, 6 cm, 2 cm

SECTION-B

16. Help unlock the treasure chest shown here!

The chest can be opened only by entering the **largest possible 7-digit number** using the digit cards **7, 4, 9, 2, 1, 0, and 6**. Each digit card can be used only once.



- Arrange the digit to form the largest possible 7-digit number. What code will unlock the treasure chest?
- Inside the chest is a secret key. Find it by writing the predecessor of the number formed in part (a).

17. Divide 9,37,125 by 105.

18. Find the value of: $125 + 12.867 - 85.4$

19. Divide $2\frac{5}{8}$ by $\frac{3}{4}$.

OR

Multiply: $\frac{12}{15} \times \frac{3}{4} \times \frac{1}{6}$

20. Fill in the missing values of A, B, C and D to make the multiplication correct.

$$\begin{array}{r} 879 \\ \times 492 \\ \hline \boxed{A} 758 \\ 7 \boxed{B} 110 \\ 35 \boxed{C} 600 \\ + \hline 43 \boxed{D} 468 \end{array}$$

21. Find the prime factorisation of the smallest 3-digit number.

22. Form a decimal number with 8 in the hundredths place, 4 in the tens place, 6 in the thousandths place, and 5 in the tenths place. Then:

- a) Write the number in words.
- b) Express the number in expanded form.

23. Write the even multiples of 13 less than 110.

24. Riya and her family are excited about their holiday trip to the USA. They are planning their travel budget. Riya's father says that the trip will cost ₹7,60,000. If 1 US dollar = ₹95, how many US dollars will be needed for the trip?

OR

A man bought 16 chairs. The price of each chair was ₹450. He paid ₹5,000 to the shopkeeper. How much more money does he need to pay?

25. Meera had 30 metres of ribbon to decorate a notice board. She used 19.25 metres of the ribbon for making borders. How much ribbon is left with her after the decoration?

SECTION-C

26. Find all the common factors of 56 and 98. Then find their HCF.

OR

Using the prime factorisation method, find the least common multiple of 56 and 72.

27. Arrange the following fractions in descending order: $\frac{7}{9}$, $\frac{5}{8}$, $\frac{1}{6}$, $\frac{3}{4}$

OR

Here are three symbols.



Put the correct symbol in each box.

$$4 \times \frac{3}{4} \quad \square \quad 2$$

$$\frac{1}{4} \div 4 \quad \square \quad \frac{1}{2}$$

$$4 \times \frac{3}{3} \quad \square \quad 4$$

28. Use the fractions given in the box to complete the following statements:

$\frac{1}{2}$	$\frac{7}{9}$	$\frac{5}{6}$
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- a) The lowest term of $\frac{28}{36}$ is _____.
- b) A fraction equivalent to $\frac{25}{30}$ is _____.
- c) $\frac{5}{6} - \frac{1}{3} =$ _____

29. Sunita has lots of parcels to send as shown below.

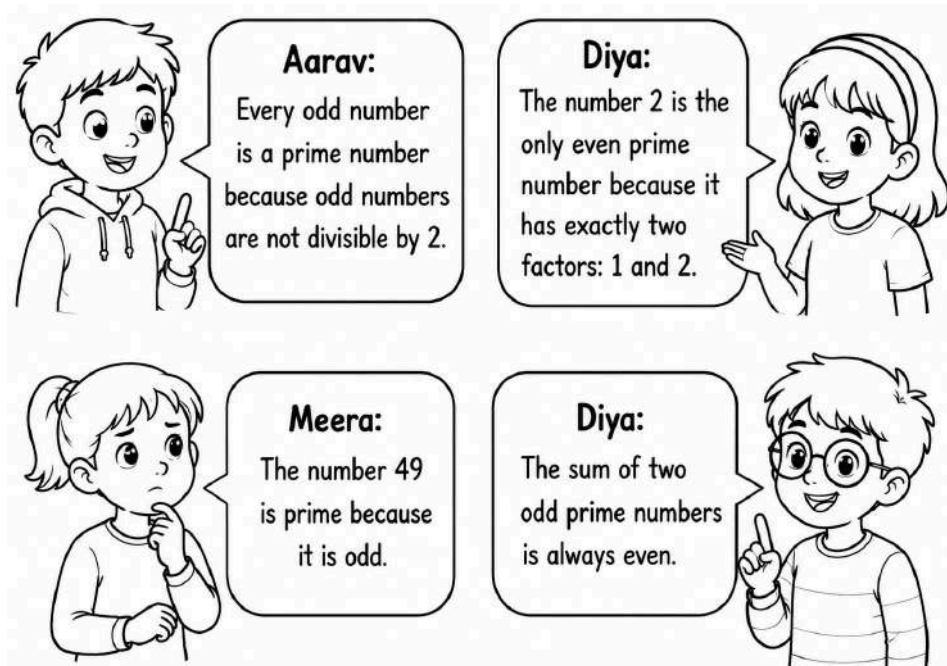
A	B	C
1.275 kg	2.5 kg	9 kg
D	E	F
1.75 kg	2.005 kg	0.975 kg

POSTAGE COSTS

	Up to 1 kg ₹ 25.75
	Up to 2 kg ₹ 40.5
	Up to 10 kg ₹ 175

- a) Arrange the parcels in order of their weight, from the lightest to the heaviest.
- b) Find the total cost of posting parcels C, D, and F.

30. Four students are discussing prime and composite numbers. Read their statements carefully and answer the following questions.



- Who all are **INCORRECT**? Explain with suitable reasons and examples. (2)
- Write all the prime numbers between 50 and 60. (1)

SECTION-D

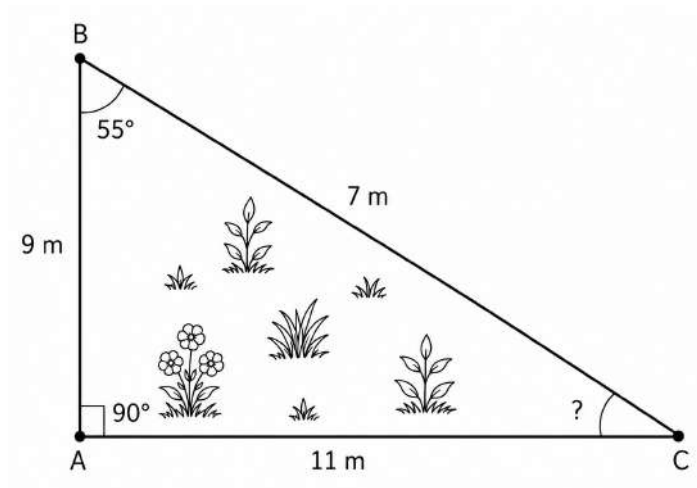
31. The table below shows the recorded population of India and some of its neighbouring countries.

Country	Population
India	950,935,791
Pakistan	215,201,554
Bangladesh	105,686,899
Nepal	30,896,590
Bhutan	792,382

Study the table carefully and answer the following questions:

- Write the population of Pakistan in words using the Indian Place Value System. (1)
- If the digits in the hundred millions place and the thousands place in Pakistan's population are interchanged, what will be the new population? Will the new population be greater than or less than the population of Bangladesh? (1)
- The population of Bangladesh is about 100 million. How many crores make 100 million? (1)
- Find the sum of the place values of the digit 5 in India's population. (2)

32. A gardener has a triangular garden with sides measuring 9 m, 7 m, and 11 m. Observe the figure carefully and complete the following statements.



- a) There are _____ sides in a triangle.
- b) The triangle with sides 9 m, 11 m and 7 m is a _____ triangle based on the measurement of its sides.
- c) $\triangle ABC$ is a _____ triangle because it has one angle of 90° .
- d) $\angle A + \angle B + \angle C =$ _____
- e) The measure of the missing angle C is _____ $^\circ$.
