

PM SHREE KENDRIYA VIDYALAYA SITAPUR

HALF YEARLY EXAM (2025-26)

CLASS-7 (MATHS) (SET-1)

T.M:- 60

Time:- 150 min

Instructions:- (1) All questions are compulsory.

(2) This question paper contains 31 questions which are divided into four sections A, B, C and D

S.NO	SECTION –A	MARK
1.	What is the Indian place value of the digit 5 in the number 3,58,15,406 ? A) Five hundreds B) Five lakhs C) Fifty lakhs D) Five crores	1
2.	Which of the following is the smallest 6-digit number? A) 9,99,999 B) 1,00,000 C) 99,999 D) 10,000	1
3.	How many zeroes are there in one crore (in Indian system)? A) 6 B) 7 C) 8 D) 5	1
4.	On a number line, when you add a negative integer, you move: A) to the right B) to the left C) stay at same point D) depends on size	1
5.	What is the additive inverse of the integer -13 ? A) 13 B) -13 C) 0 D) Cannot say	1
6.	Which of these gives a smaller integer? A) -5 B) -10 C) 0 D) 5	1
7.	Which of these is an improper fraction ? A) $\frac{4}{5}$ B) $\frac{7}{3}$ C) $\frac{2}{3}$ D) $\frac{3}{4}$	1
8.	What is $3.75 + 2.5$? A) 6.25 B) 5.75 C) 6.5 D) 5.25	1
9.	If you divide $5\frac{1}{2}$ by $\frac{1}{2}$, what is the result? A) 10 B) 11 C) 5 D) 6	1
10.	Solve for x: $x + 7 = 12$. A) 5 B) 19 C) -5 D) 7	1
11.	Solve: $5x = 35$. A) 5 B) 7 C) 30 D) -7	1
12.	Solve for x: $x - 4 = 9$. A) 13 B) 5 C) -5 D) 4	1
	 A = Assertion (a statement)  R = Reason (a supporting statement)  Choose the correct option: - Both A and R are true, and R is the correct explanation of A - Both A and R are true, but R is not the correct explanation of A - A is true, but R is false - A is false, but R is true	
13	Assertion (A): The sum of two negative integers is a positive integer. Reason (R): Adding integers with the same sign gives an integer with the same sign.	1
14.	Assertion (A): The fraction $\frac{4}{9}$ is an improper fraction. Reason (R): A fraction in which the numerator is greater than the denominator is called an improper fraction.	1

15.	Assertion (A): If $x+7=15$, then $x=8$. Reason (R): Solving an equation means finding the value of the variable which makes the LHS = RHS.	1										
SECTION-B CASE STUDY QUESTIONS												
16.	Population Data The table below shows the population of four states (as per a census): <table><thead><tr><th>State</th><th>Population</th></tr></thead><tbody><tr><td>State A</td><td>5,48,72,351</td></tr><tr><td>State B</td><td>7,32,15,406</td></tr><tr><td>State C</td><td>4,25,68,209</td></tr><tr><td>State D</td><td>8,19,52,765</td></tr></tbody></table> Q1. Which state has the largest population? A) A B) B C) C D) D Q2. Arrange the states in ascending order of population. A) C, A, B, D B) A, C, B, D C) C, B, A, D D) B, A, C, D Q3. What is the total population of all four states together? A) 25,26,08,731 B) 25,26,08,721 C) 24,26,08,731 D) 26,26,08,731	State	Population	State A	5,48,72,351	State B	7,32,15,406	State C	4,25,68,209	State D	8,19,52,765	3
State	Population											
State A	5,48,72,351											
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17.	Company Revenue A company reported its annual revenue for four years as follows: <table><thead><tr><th>Year</th><th>Revenue (in ₹)</th></tr></thead><tbody><tr><td>2020</td><td>3,45,20,000</td></tr><tr><td>2021</td><td>4,10,75,000</td></tr><tr><td>2022</td><td>5,25,60,000</td></tr><tr><td>2023</td><td>6,15,80,000</td></tr></tbody></table> Q1. In which year was the revenue highest? A) 2020 B) 2021 C) 2022 D) 2023 Q2. What is the difference between the revenue of 2023 and 2020? A) ₹2,70,60,000 B) ₹3,70,60,000 C) ₹1,70,60,000 D) ₹2,80,60,000 Q3. The total revenue in four years is approximately: A) 18 crores B) 19 crores C) 20 crores D) 21 crores	Year	Revenue (in ₹)	2020	3,45,20,000	2021	4,10,75,000	2022	5,25,60,000	2023	6,15,80,000	3
Year	Revenue (in ₹)											
2020	3,45,20,000											
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2022	5,25,60,000											
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18.	Write a story/situation for each of the following expressions and find their values. (a) $89 + 21 - 10$ (b) $5 \times 12 - 6$ (c) $4 \times 9 + 2 \times 6$	3										
19.	A metro train ticket between two stations is ₹40 for an adult and ₹20 for a child. What is the total cost of tickets: (i) for four adults and three children? (ii) for two groups having three adults each?	3										
20.	Lhamo and Norbu went to a hotel. Each of them ordered a vegetable cutlet and a rasgulla. A vegetable cutlet costs ₹43 and a rasgulla costs ₹24. Write an expression for the amount they will have to pay	3										
SECTION-C												
21.	Compare the following pairs of expressions using ‘<’ ‘>’ or ‘=’ or by reasoning.	2										

	(a) $49 - 7 + 8$ $49 - 7 + 8$ (b) $83 \times 42 - 18$ $83 \times 40 - 18$	
22.	Given $53 \times 18 = 954$. Find out 63×18 .	2
23.	Write the following numbers in Indian place value notation: (a) One crore one lakh one thousand ten (b) One billion one million one thousand one	2
24.	(a) According to the 2011 Census, the population of the town of Chintamani was about 75,000. How much less than one lakh is 75,000? (b) The estimated population of Chintamani in the year 2024 is 1,06,000. How much more than one lakh is 1,06,000?	2
25.	How many kilograms is 5 g?	2
26.	Find the sums (a) $5.3 + 2.6$ (b) $18 + 8.8$	2
27.	Write formulas for the perimeter of: (a) triangle with all sides equal. (b) a regular pentagon (we use the word 'regular' to say that all side lengths and angle measures are equal)	2
28.	Simplify the following expressions: (a) $3a + 9b - 6 + 8a - 4b - 7a + 16$ (b) $3(3a - 3b) - 8a - 4b - 16$	2
	SECTION-D	
29.	Calculate these products quickly. (a) $25 \times 12 = \underline{\hspace{2cm}}$ (b) $25 \times 240 = \underline{\hspace{2cm}}$ (c) $250 \times 120 = \underline{\hspace{2cm}}$ (d) $2500 \times 12 = \underline{\hspace{2cm}}$ (e) $\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = 120000000$	5
30.	Fill in the blanks to make the expressions equal on both sides of the = sign: (a) $13 + 4 = \underline{\hspace{1cm}} + 6$ (b) $22 + \underline{\hspace{1cm}} = 6 \times 5$ (c) $8 \times \underline{\hspace{1cm}} = 64 \div 2$ (d) $34 - \underline{\hspace{1cm}} = 25$	4
31.	Write the following fractions in decimal form: (a) $\frac{1}{2}$ (b) $\frac{3}{2}$ (c) $\frac{1}{4}$ (d) $\frac{3}{4}$ (e) $\frac{1}{5}$ (f) $\frac{4}{5}$	5