

PM SHREE KENDRIYA VIDYALAYA SITAPUR

PERIODIC TEST-1 (2024-2025)

CLASS-8 (MATHS)

T:Marks:40Time:-90 minutes

INSTRUCTIONS:-

1.All questions are compulsory

2.This question paper have 19 questions which is divided into 3 section

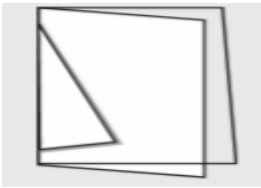
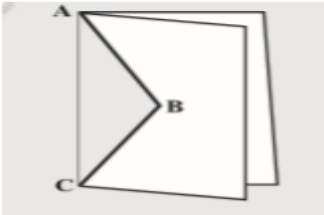
3. Section – A have 10 questions of 1 mark each. Section- B have 2 CCT questions of 4 marks each ,and

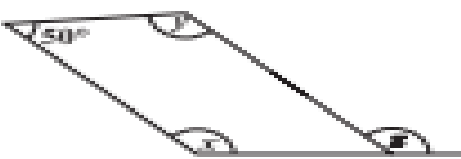
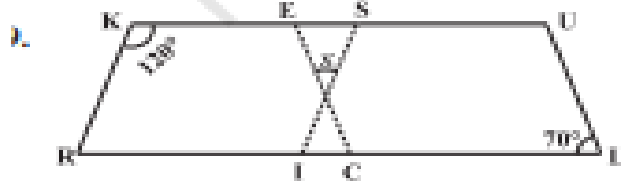
2 assertion and reason based questions of 1 mark each

4. Section –C have 6 questions. 2 questions of 2 marks each , 2 questions of 3 marks each and 2 questions

of 5 marks each.

S.NO	SECTION-A (10X1=10)	Marks
1.	Which of the following type of numbers are not closed under subtraction? a) Rational Numbers b) Integers c) Whole Numbersd) All of the mentioned	1
2.	What is the reciprocal of $1/-x$? a) x b) $-xc$ $1/xd$ $1/-x$	1
3.	Solve equation $7x + 14 = 21$ to find value of x . a) $x = 1$ b) $x = -1$ c) $x = 2$ d) $x = -2$	1
4.	Pick the equation from the given one's which have solution as $z = 2$. a) $2z - 2 = 3$ b) $3z - 2 = -2$ c) $3z - 3 = 3$ d) $4z + 3 = 3$	1
5.	If Ram's present age is 3 years and Shyam is twice Ram's present age. What will be Shyam's age after 10 years? a) 16b) 17c) 18d) 19	1
6.	Which of the following lies between 2 and 3? a) $5/2$ b) $6/2$ c) $6/3$ d) $12/3$	1
7.	What is the sum of all the angles in any triangle? a) 90° b) 180° c) 270° d) 240°	1
8.	In a quadrilateral the angles are $40^\circ, 120^\circ, 10^\circ$ and x . Find x . a) 40° b) 120° c) 190° d) 180°	1
9.	what is the formula for the sum of interior angle of 'n' sided polygons. a) $nx180^\circ$ b) $(n-1)x90^\circ$ c) $(n-2) x180^\circ$ d) $(n-2)x 360^\circ$	1
10.	What is the sum of all the angles in any pentagon? a) 90° b) 540° c) 270° d) 240°	1
	SECTION-B (CCT)	
11.	Two friends Raju and Sanju plan to go from Asansol to Kolkata by car. They travelled by a car with a uniform speed of 40 kmph and reached the destination in x hours. Next day, Raju alone travelled from Asansol to Kolkata on his new sports bike with a uniform speed and reached the place one hour earlier than their previous travel time. The total time taken for travelling both the days is 9 hrs	
(a)	What was the speed of the sports bike?	1

	A) 60kmph B) 50kmph C) 70kmph D) 80kmph	
(b)	What is the distance between Asansol and Kolkata:- A) 500km B) 400km C) 200km D) 120km	1
(c)	If with the same motor-bike we have to travel 600 km without any stop with same uniform speed, how much time will be required? A) 6 hours B) 12 hours C) 18 hours D) 24 hours	1
(d)	If the motor-bike goes 80 km in 1 litre of petrol where each litre of petrol costs Rs.80 then how much money was spent by them to buy fuel for the journey from Asansol to Kolkata? A) Rs. 500 B) Rs. 400 C) Rs. 200 D) Rs. 120	1
12.	A student takes a white sheet. He then folds it once as shown in the diagram. He then draws two line segments of different lengths as shown in the figure. If he cuts it along the line segments and opens up 	
(a)	What shape you will get?	1
(b)	Does the shape obtained have a line of symmetry?	1
(c)	Give a method to check whether the diagonals of the shape obtained bisect each other?	1
(d)	If the line segments are equal (refer to the figure given below), then what shape the student will get? 	1
13.	Directions: In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as: (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A). (b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A). (C) Assertion (A) is true but reason (R) is false. (d) Assertion (A) is false but reason (R) is true.	
(a)	Assertion: The sum of any two rational numbers is a rational number. (Reason) : There are no two rational numbers whose sum is not a rational number.	1
(b)	Assertion (A) – The sum of the measures of all the four angles of a quadrilateral is 360° Reason (R) – In geometry a quadrilateral is a four-sided polygon, having four edges (sides) and four corners (vertices)	1
SECTION-C		
14.	Name the property under multiplication used in each of the following. (i) $\frac{-4}{5} \times 1 = 1 \times \frac{-4}{5} = \frac{-4}{5}$ (ii) $\frac{-13}{17} \times \frac{-2}{7} = \frac{-2}{7} \times \frac{-13}{17}$	2
15.	Solve the following equations and check your results. 1). $3x = 2x + 18$ 2). $5t - 3 = 3t - 5$	2

16.	Solve the following linear equations. $\frac{X}{2} - \frac{1}{3} = \frac{X}{3} + \frac{1}{4}$	3
17.	Consider the following parallelograms. Find the values of the unknowns x, y, z. 	3
18.	In the below figure both RISK and CLUE are parallelograms. Find the value of x. 	5
19.	Simplify and solve the following linear equations. a) $3(t - 3) = 5(2t + 1)$ b) $15(y - 4) - 2(y - 9) + 5(y + 6) = 0$	5