



AnandNiketan

Maninagar Campus

Grade : VIII	Subject : Maths	Section:- _____
Date :	Periodic Test-III	Practice Worksheet

<u>Syllabus for Periodic Test-III</u>	<u>Periodic Test-III -20 Marks</u>	
Ch-8 Linear Equation in One variable Ch- 12 Understanding Quadrilateral	Notebook submission 10 marks	Dictation -15 Marks A S L - 5 Marks

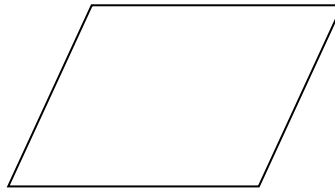
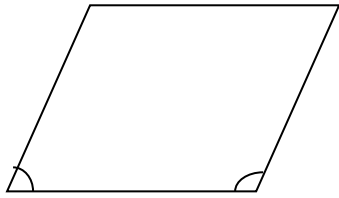
Q1 Solve the following: (1 marks each)

- $10x = 40$
- $\frac{5x-7}{x+1} = 2$
- Verify whether $x = 3$ is the solution of $3(x + 5) = 24$
- A polygon whose all sides and all angles are same is called a _____ polygon
- A nonagon has _____ diagonals
- Sum of all exterior angles of a pentagon is _____
- The measure of each exterior angle of a regular Decagon is _____
- A parallelogram having all sides equal is called a _____
- A Trapezium is said to be an _____ trapezium, If its non- parallel sides are equal
- Diagonals bisect each other in _____, _____, _____, _____

Q2 Solve the following (2 marks each)

- Twice the number is 24 greater than its half. Find the number
- One sixth of the number decreased by 4 is equal to 1. Find the number
- $\frac{4x-3}{2x+6} = \frac{3}{2}$
- Two numbers are in the ratio 7: 5. If they differ by 16, make only the equation.
- In Upstream, always the _____ of speeds of steamer and stream is considered.
In Downstream, always the _____ of speeds of steamer and stream is considered
- How many sides does a regular polygon have if each of its interior angles is 165° ?
- Find the measure of each exterior angle of a regular polygon of 15 sides.
- The adjacent sides of a parallelogram are 6 cm and 4 cm. Find its perimeter.
- State the four properties of a parallelogram

10.



Can the above figures be a parallelogram? Justify your answer.

Q3. Solve the following (3 marks each)

1. A number has two digits. The digit at tens place is four times the digit at units place. If 54 is subtracted from, the digits are reversed. Find the number.
2. The ages of Tanay and Vinal are in the ratio 8:7. Six years later, their ages will be in the ratio 10:9. Find their ages?
3. A streamer goes upstream and covers the distance between two points in 4 hours, while it covers the same distance downstream in 3 hours. If the speed of the streamer is 2Km/h, Find the speed of the streamer in still water.
4. Three consecutive numbers are such that when they are taken in increasing order and multiplied by 3,4 and 5 respectively, they add up to 386. Find these numbers.
5. Anil deposited Rs. 73000 in the bank. The currency notes given by him to the bank were of denomination Rs. 10, Rs.50 and Rs. 100 in the ratio 3:4:5 respectively, find the number of notes of each denomination Anil deposited.
6. The four angles of the quadrilateral are in the ratio 1:2:3:4 What is the measure of each angle?
7. The shorter side of a parallelogram is 4.6 cm and the longer side is half as much again as the shorter side. Find the perimeter of the parallelogram.
8. Two opposite angles of a parallelogram are $(5x - 2)^\circ$ and $(40 - x)^\circ$. Find the value of x .
9. The diagonals of the rhombus are 8 cm and 6 cm. Find the length of the side of the rhombus.

Q4 Solve the following (4 marks each)

1. In the given figure, both RISK and CLUE are parallelograms. Find the value of x .



2. RICE is a rhombus whose diagonal intersects at O. If $RE = 13$ cm and $RC = 24$ cm, Find EL.
3. There is a rectangle plot reserved for the construction of the school. The length and breadth of the plot are in the ratio 8:5. At the rate of Rs. 100 per meters, it will cost Rs. 52000 to fence the plot. What are the dimensions of the plot
4. Half of a herd of deer are grazing in the field and three-fourths of the remaining are playing nearby. The rest 9 are drinking water from the pond. Find the number of deer in the herd.
5. The age of A is one – third the age of B. After 15 years the age of A will be half the age of B. Find their present ages.
