

ST. THOMAS SCHOOL, SAHIBABAD
PERIODIC TEST III (2025 – 2026)
WORKSHEETQ1
SUBJECT: MATHEMATICS (041)
CLASS IX

TIME: 1 HR.

MM: 20

1. Find the value of k if $(4, 1)$ is a solution of the linear equation $x + ky = 9$. [1]
2. In a quadrilateral ABCD, $AB = CD$ and $AB \parallel CD$. What special type of quadrilateral is ABCD? [1]
3. PQRS is a parallelogram with diagonals intersecting at O. If $AC = 15$ cm and $BD = 12$ cm. [1]
Write the lengths of AO and BO.
4. Two sides of a triangle are 15 cm and 17 cm. Find the third side of the triangle if its perimeter [1]
is 50 cm.
5. Express the equation $5x - 3y = 15$ in the standard form $ax + by + c = 0$. Also write the [2]
values of a , b and c .
6. Prove that the diagonals of a rectangle are equal. [2]
7. The sides of a triangle are in the ratio $3 : 4 : 5$. Find its area, if the perimeter of the triangle [2]
is 240 cm.
8. The labour charges for the carpenter comprises of a fixed charge of ₹1500 and an additional [3]
charge of ₹175 per day.
Write a linear equation for the situation, taking the number of days as x and the total amount
as ₹ y . Find the total amount for 9 days. Find the number of days the carpenter worked, if he
received ₹6750.
9. Find the area of a triangle with sides 30 cm, 54 cm and 61 cm. [3]
10. Prove that the line segments joining the mid points of the opposite sides of a quadrilateral [4]
bisect each other.