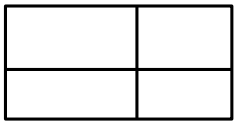
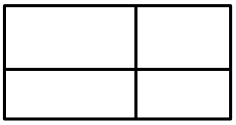
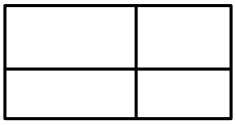
1. Remove parenthesis and simplify:



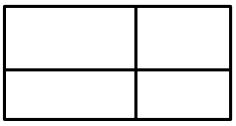
$(w + 3) \cdot (w + 3) =$ _____



$(a + b)^2 =$ _____

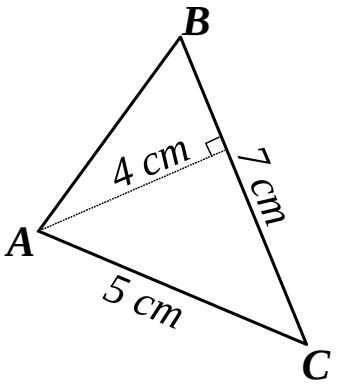


$(2x + 1) \cdot (2x - 1) =$ _____

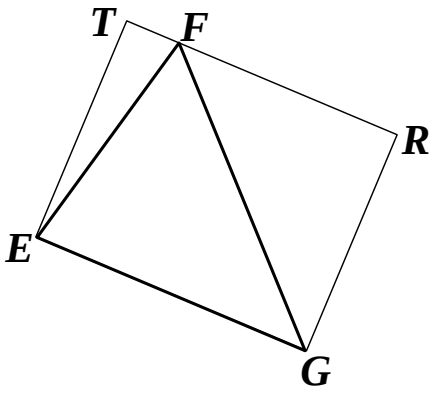


$(2x + y) \cdot (2x - y) =$ _____

2. Find the areas of the triangles:

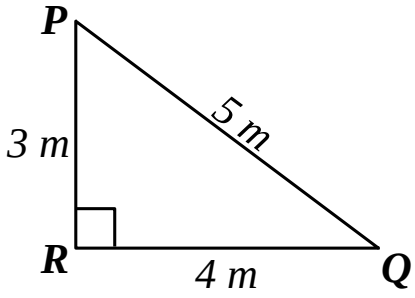


$S_{\triangle ABC} =$ _____



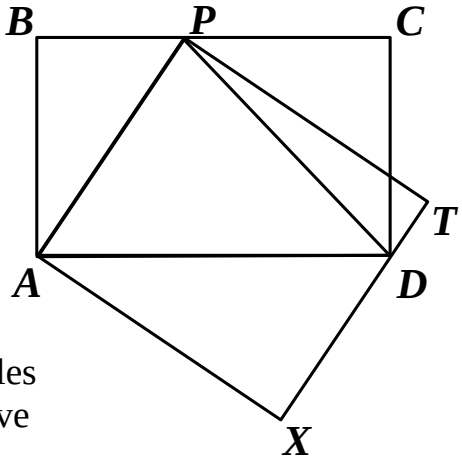
$S_{ETRG} = 12\ cm^2$

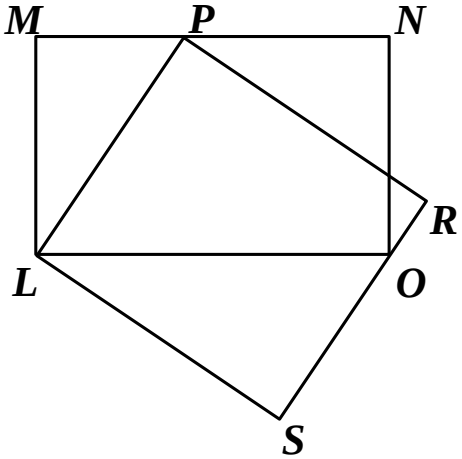
$S_{\triangle EFG} =$ _____



$S_{\triangle RPQ} =$ _____

3. Compare areas of rectangles ***ABCD*** and ***APTX*** to the area of $\triangle APD$ to show that they are equal.

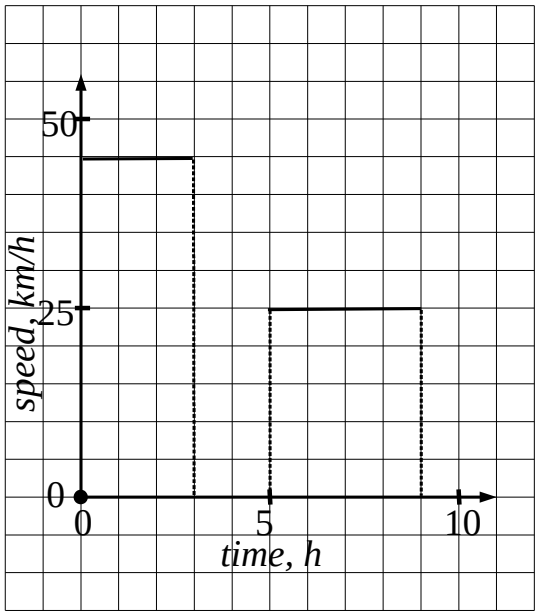




4*. show that rectangles ***LMNO*** and ***LPRS*** have equal areas.

5. Solve the equation: $\frac{3}{4} - \frac{3}{5x} = \frac{5}{12}$ ($x = 9/5$)

6. Analyze the graph of a motor boat trip.



What was the initial speed of the boat?

How long did it take the boat to travel 90 km?

How far did it travel before stopping?

How long did it take the boat to travel 120 km?

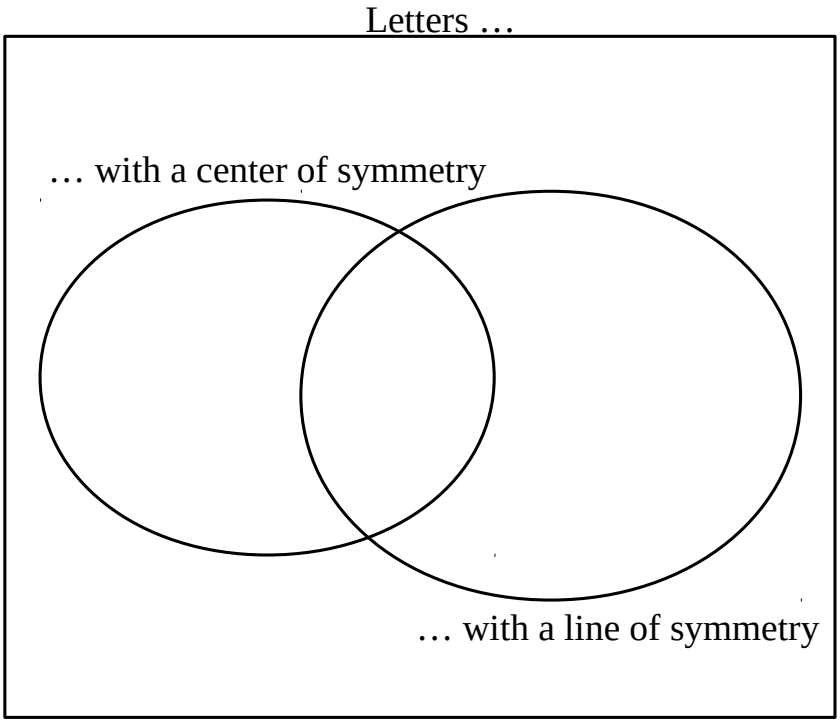
How long did it take the boat to travel 150 km?

How far did the boat travel within the first 7 hours?

7. How to measure 1 liter of lemonade having a large unmarked bucket and …

a). … a 7L and a 3L measures;
b). … a 7L and a 4L measures;
c). … a 5L and a 3L measures?

8. Fill in the Venn Diagram for the following letters of English alphabet:
A, B, C, D, O, P, Q, S, W, X, Y, Z



How many of them have …

… center of symmetry?

… line of symmetry?

… center **AND** line of symmetry?

… center **OR** line of symmetry?