# **Perimeter and Area**

Subtopic: Area of a Triangle

#### Section 1

- 1 Mark T for True and F for False.
- 1a Given any type of triangle, we can always make a parallelogram.
- 1b Area of a triangle is 1/2 X base X height.
- 1c Given any type of parallelogram, we can always make congruent triangles.
- 2 Choose the correct answer. Triangles equal in area need

a) To be congruent

#### Section 2

3 Fill in the blanks. The area of the triangle PQR is

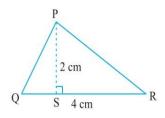


4 Fill the missing values.

SN	Base	Height	Area of Triangle
a	15 cm		87 cm²
b		31.4 cm	1256 cm <sup>2</sup>
С	22 cm		170.5 cm <sup>2</sup>
d	21cm		105 cm <sup>2</sup>

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b) Not be congruent





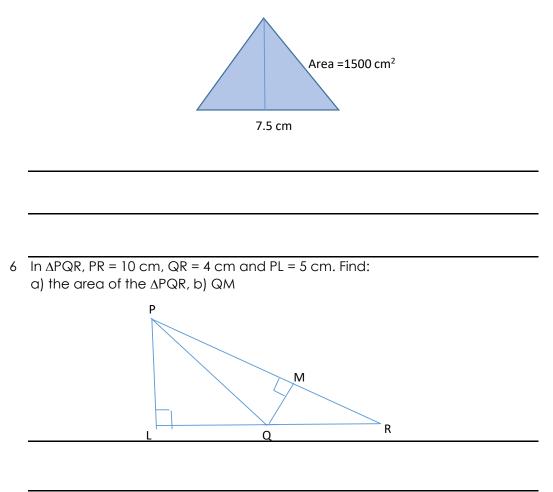


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### Section 3

5 Find the height of a triangle whose area is  $1500 \text{ cm}^2$  and base is 7.5 cm.



7 The area of a triangle is equal to that of a square whose side measures 30 cm. Find the side of the triangle whose corresponding altitude is 36 cm.

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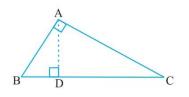
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## **Perimeter and Area**

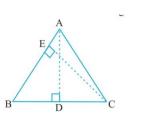
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### Section 4 : Think and answer questions below:

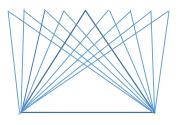
8  $\triangle$ ABC is right angled at A. AD is perpendicular to BC. If AB = 5 cm, BC = 10 cm and AC = 12 cm, find the area of  $\triangle$ ABC. Also find the length of AD.



9  $\triangle$ ABC is isosceles with AB = AC = 8 cm and BC = 9 cm. The height AD from A to BC, is 6 cm. Find the area of  $\triangle$ ABC. What will the height from C to AB i.e., CE, be?



10 What can you infer on area and congruency from the figure below with overlapping triangles ?



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