Topic: Ch-8, Triangles

1. Choose the correct options for the following.

a) In a _____ triangle, all three sides are of different size.

 i) scalene ii) equilateral iii) isosceles iv) right

b) In a triangle, any two sides meet to form a _____.

i) angle ii) base iii) triangle iv) vertex

c) If the measure of ∠b is 50° and the measure of ∠c is 65° in a triangle, what is the measure of ∠a?

i) 50° ii) 65° iii) 115° iv) 55°

d) Identify the given triangle based on its sides.
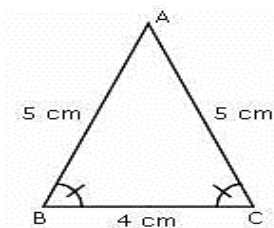
i) equilateral ii) obtuse iii) isosceles iv) acute

e) Assertion (A): In any triangle, the sum of all three interior angles is always 180 degrees.

   Reason (R): Each angle in a triangle is formed by three sides, and the sum of all interior angles is equal to the straight angle, which measures 180 degrees.

i) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).

ii) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).

iii) Assertion (A) is true but Reason (R) is false.
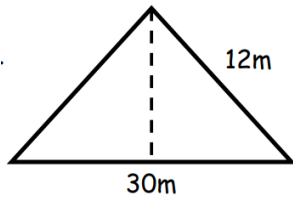
iv) Assertion (A) is false but Reason (R) is true.

2. Look at the given triangle and fill in the blanks.
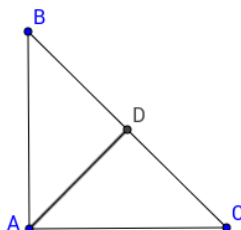
a) Sides _____ and _____ form ∠BCA

b) _____ is perpendicular to BC.

c) Points _____, _____ and _____ are the vertices.

d) When _____ is the base, AD is the height.

3. Find the area of the given triangle.

12m

30m

_____

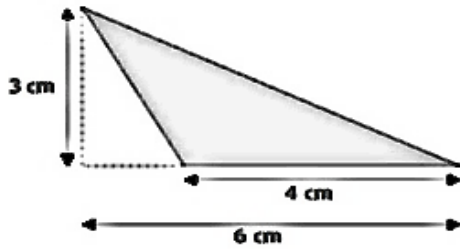_____

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4. Solve.

a) Find the area of the shaded triangle.	b) Find the shaded area of the rectangle.
3 cm 4 cm 6 cm	A B 10cm 4cm H I C 12cm D
_____ _____ _____ _____	_____ _____ _____ _____
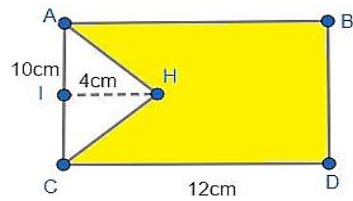
5. The figure is made up of a square and a triangle. Find the area of the figure.

6m

12m

_____

_____

_____

_____

_____

_____