

## **ANSWER KEY**

- 1. a) BC = 10 cm
  - AB = ?

 $BC \times BD = AB^2$ 

 $10 \times 3.6 = AB^2$ 

- $36 = AB^{2}$
- AB = 6 cm
- b) AC = 8 cm
  - Radius / ആരം = **4 cm**
- 2.  $\sum_{B=80^{\circ}}$  ENCEACADEMY Here Ends Your Search
- 3. a) Perimeter / ചുറ്റളവ്
  - P = 9 + 12 + 15

(Hypotenuse /കർണ്ണം = 15 cm)

- P = 36 cm
- b) A =  $\frac{1}{2} \times b \times h = \frac{1}{2} \times 12 \times 9 = 54 \text{ cm}^2$
- c) r = A/5 = 54/18 = 3 cm
- 4. a)  $PA \times PB = PC^2$

$$PA = \frac{PC^2}{PB} = \frac{12^2}{8}$$

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$$=\frac{144}{8}$$

 $PA = 18 \ cm$ 

b)  $QA \times QB = QC^2$  QA = PA + PQ = 18 + 2 = 20 QB = PB + PQ = 8 + 2 = 10  $20 \times 10 = QC^2$   $200 = QC^2$  $QC = \sqrt{200} = 10\sqrt{2} \text{ cm}$ 



