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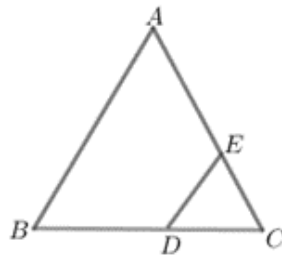
CBSE Class 10 - Mathematics: Questions and Answers Chapter – 6 Triangles Part 1

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1 Mark Questions

Question 1:

In the figure $\triangle ABC \sim \triangle EDC$, if we have $AB = 4\text{ cm}$, $ED = 3\text{ cm}$, $CE = 4.2\text{ cm}$ and $CD = 4.8\text{ cm}$, then the values of CA and CB are



- (a) 6 cm, 6.4 cm
- (b) 4.8 cm, 6.4 cm
- (c) 5.4 cm, 6.4 cm
- (d) 5.6 cm, 6.4 cm

Answer

- (d) 5.6 cm, 6.4 cm

Question 2:

The areas of two similar triangles are respectively 9 cm^2 and 16 cm^2 . Then ratio of the corresponding sides are

- (a) 3: 4
- (b) 4: 3

(c) 2: 3

(d) 4: 5

Answer:

(d) 4: 5

Question 3:

Two isosceles triangles have equal angles and their areas are in the ratio 16: 25, then the ratio of their corresponding heights is

(a) $\frac{4}{5}$

(b) $\frac{5}{4}$

(c) $\frac{3}{6}$

(d) $\frac{5}{7}$

Answer:

(a) $\frac{4}{5}$

Question 4:

If $\triangle ABC \sim \triangle DEF$ and $AB = 5\text{ cm}$, area $(\triangle ABC) = 20\text{cm}^2$, area $(\triangle DEF) = 45\text{cm}^2$, then $DE =$

(a) $\frac{4}{5}\text{ cm}$

(b) 7.5 cm

(c) 8.5 cm

(d) 7.2 cm

Answer:

(b) 7.5 cm

Question 5:

A man goes 15m due west and then 8m due north. Find distance from the starting point.

(a) 17m

(b) 18m

(c) 16m

(d) 7m

Answer:

(a) 17m

Question 6:

In a triangle ABC, if $AB = 12\text{ cm}$, $BC = 16\text{ cm}$, CA

- (a) Acute angled
- (b) Right angled
- (c) Isosceles triangle
- (d) Equilateral triangle

Answer:

- (b) Right angled

Question 7:

In an isosceles triangle ABC , $AB = AC = 25\text{ cm}$ and $BC = 14\text{ cm}$, then altitude from A on $BC =$

- (a) 20 cm
- (b) 24 cm
- (c) 12 cm
- (d) None of these

Answer:

- (b) 24 cm

Question 8:

The side of square whose diagonal is 16 cm is

- (a) 16 cm
- (b) $8\sqrt{2}\text{ cm}$
- (c) $5\sqrt{2}\text{ cm}$
- (d) None of these

Answer:

- (b) $8\sqrt{2}\text{ cm}$