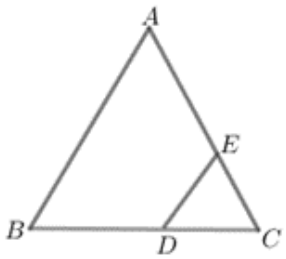
CBSE Class 10 - Mathematics: Questions and Answers Chapter – 6 Triangles Part 1

1 Mark Questions

Question 1:

In the figure $\Delta ABC \sim \Delta EDC$, if we have $AB = 4\,cm, ED = 3\,cm, CE = 4.2\,cm$ and $CD = 4.8\,cm$, 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 $9cm^2 \text{and} 16cm^2$. 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 $\Delta ABC \sim \Delta DEF$ and $AB = 5\,cm$, area $(\Delta ABC) = 20cm^2$, area $(\Delta DEF) = 45cm^2$, then $DE =$

(a) $\frac{4}{5}$ 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 $AB = 12\ cm, BC = 16\ cm, CA$

(a) Acute angled

(b) Right angled

(c) Isosceles triangle

(d) Equilateral triangle

Answer:

(b) Right angled

Question 7:

In an isosceles triangle $ABC, AB = AC = 25\ cm$ and $BC = 14\ cm$, 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 who's diagonal is $16\ cm$ is

(a) 16 cm

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

(c) $5\sqrt{2}cm$

(d) None of these

Answer:

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