

MCQ TRIANGLES

Choose the correct options.

Q 1. Given that $\triangle ABC \sim \triangle DEF$. If $DE = 2AB$ and $BC = 3$ cm then, EF is equal to _____.

- (a) 12 cm
- (b) 2 cm
- (c) 1.5 cm
- (d) 6 cm

Q 2. The altitude of an equilateral triangle, having the length of its side as 12 cm, is:

- (a) 6 2 cm
- (b) 6 cm
- (c) 8.5 cm
- (d) 6 3 cm

Q3. The areas of two similar triangles are 49 cm² and 64 cm² respectively. The ratio of their corresponding sides is

- (a) 49:64
- (b) 7:8
- (c) 64:49
- (d) None of these

Q 4. If $\triangle ABC$ is similar to $\triangle DEF$ such that $BC = 3$ cm, $EF = 4$ cm and area of triangle ABC is 54 cm². Then the area of $\triangle DEF$ is:

- (a) 106 cm²

- (b) 96 cm²
- (c) 120 cm²
- (d) 132 cm²

Q5. All the equilateral triangles are _____.

- (a) Similar
- (b) Congruent
- (c) both (a) and (b)
- (d) None of these

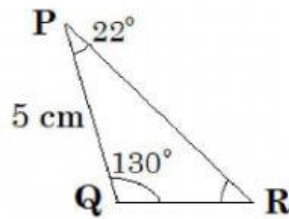
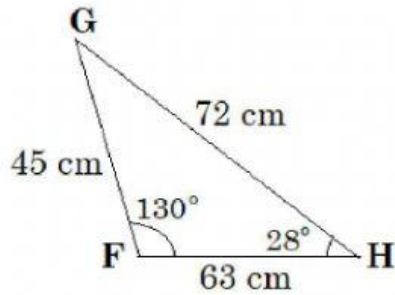
Q 6. A triangle PQR is similar to another triangle ABC such that $\text{ar}(\text{PQR}) = 4\text{ar}(\text{ABC})$. The ratio of their perimeters is given as:

- (a) 2:1
- (b) 1:2
- (c) 4:1
- (d) None of these

Q7. If the three sides of a triangle are a , $3a$, $2a$ then the measure of the angle opposite to the longest side is:

- (a) 60°
- (b) 90°
- (c) 45°
- (d) 30°

Q8. In the figure (see the figure) FGH and PQR are two triangles. If the measurements are as shown in the figure, then PR is equal to:



- (a) 16 cm
- (b) 12 cm
- (c) 8 cm
- (d) 4 cm

Q9. A boy walks 300 m towards East and then 250 m towards North. The distance of the boy from the starting point is:

- (a) 250 m
- (b) $50\sqrt{61}$ m
- (c) $60\sqrt{61}$ m
- (d) $10\sqrt{61}$ m

Q 10. In the given figure, $PQ \parallel BC$ and $AP : PB = 1 : 2$. Then $\frac{ar(APQ)}{ar(ABC)}$ is

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|----------|----------|
| (a) 1: 4 | (c) 1: 9 |
| (b) 4 :1 | (d) 2: 9 |

