

## MCQ TRIANGLES

Choose the correct options.

Q 1. Given that  $\Delta ABC \sim \Delta DEF$ . If  $DE = 2AB$  and  $BC = 3 \text{ cm}$  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  $49 \text{ cm}^2$  and  $64 \text{ cm}^2$  respectively. The ratio of their corresponding sides is

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

Q 4. If  $\Delta ABC$  is similar to  $\Delta DEF$  such that  $BC = 3 \text{ cm}$ ,  $EF = 4 \text{ cm}$  and area of triangle  $ABC$  is  $54 \text{ cm}^2$ . Then the area of  $\Delta DEF$  is:

- (a) 106  $\text{cm}^2$

- (b)  $96 \text{ cm}^2$
- (c)  $120 \text{ cm}^2$
- (d)  $132 \text{ cm}^2$

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

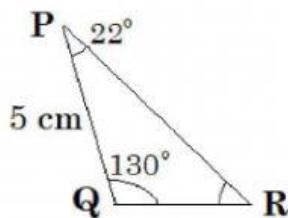
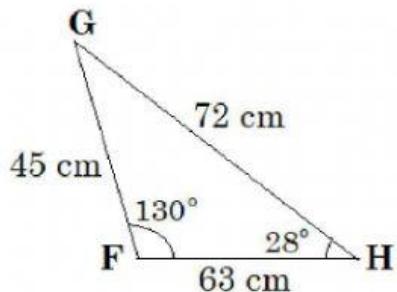
their perimeters is given as:

- (a) 2:1
- (c) 4:1
- (b) 1:2
- (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)  $60^\circ$
- (b)  $90^\circ$
- (c)  $45^\circ$
- (d)  $30^\circ$

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

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

