

SIMILAR TRIANGLES

Maths Makes Sense!

Think Learn Grow!

CLASS 10 - MULTIPLE CHOICE QUESTIONS

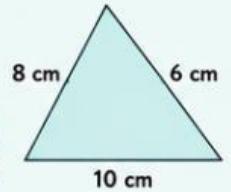
1 If two angles of a triangle are 50° and 60° , the third angle is:

- A** 60° **B** 70°
C 80° **D** 90°



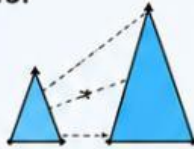
6 The sides of a triangle are 6 cm, 8 cm, and 10 cm. The triangle is:

- A** Acute-angled **B** Obtuse-angled
C Right-angled **D** Equilateral



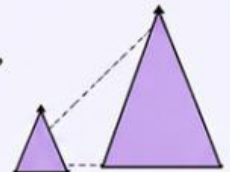
2 In two similar triangles, the ratio of their corresponding sides is 3:5. The ratio of their areas is:

- A** 3:5 **B** 6:10
C 9:25 **D** 15:25



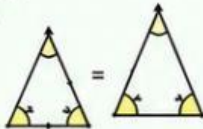
7 If the areas of two similar triangles are in the ratio 16:25, then the ratio of their corresponding sides is:

- A** 16:25 **B** 4:5
C 8:10 **D** 2:5



3 Which criterion is used to prove two triangles are similar when two angles are equal?

- A** SSS **B** SAS
C AA **D** RHS



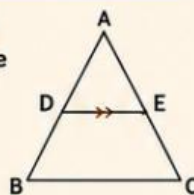
8 A triangle with all sides equal is called:

- A** Isosceles triangle **B** Scalene triangle
C Right triangle **D** Equilateral triangle



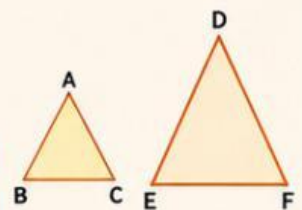
4 If a line is drawn parallel to one side of a triangle to intersect the other two sides, then it divides those sides:

- A** Equally **B** Proportionally
C Perpendicularly **D** Randomly



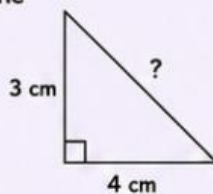
9 If $\triangle ABC \sim \triangle DEF$ and $AB = 6$ cm, $DE = 9$ cm, $BC = 8$ cm, then EF is:

- A** 10 cm **B** 12 cm
C 14 cm **D** 16 cm



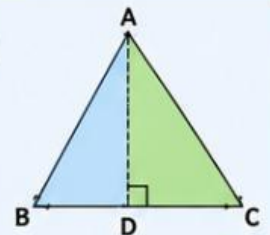
5 In a right-angled triangle, if the sides are 3 cm and 4 cm, the hypotenuse is:

- A** 5 cm **B** 6 cm
C 7 cm **D** 8 cm



10 The ratio of the areas of two triangles having equal heights is equal to the ratio of their:

- A** Angles **B** Perimeters
C Bases **D** Diagonals



Smart Work Leads to Great Results!