

Class Test on Triangle and its property (Class 7)

Full marks: 12

Choose the correct option.

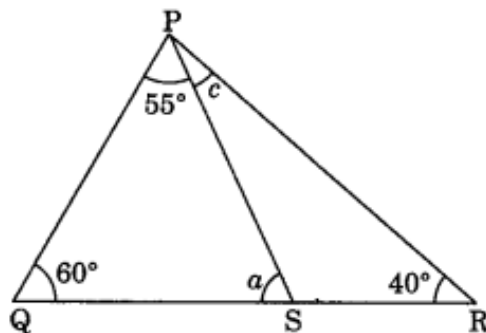
1x4=4

- 1) A triangle can have a maximum of how many right angles?
 - a) One
 - b) Two
 - c) Three
 - d) Four
- 2) Which of the following sets of lengths can form a triangle?
 - a) 2 cm, 3 cm, 5 cm
 - b) 4 cm, 5 cm, 10 cm
 - c) 3 cm, 4 cm, 5 cm
 - d) 1 cm, 2 cm, 5 cm
- 3) An equilateral triangle has:
 - a) Two equal sides and two equal angles
 - b) Three equal sides and three equal angles
 - c) Three unequal sides and three unequal angles
 - d) One 90° angle
- 4) In a $\triangle ABC$, which of the given condition holds?
 - (a) $AB - BC > CA$
 - (b) $AB + BC < CA$
 - (c) $AB - BC < CA$
 - (d) $AB + CA < BC$

Answer the following questions.

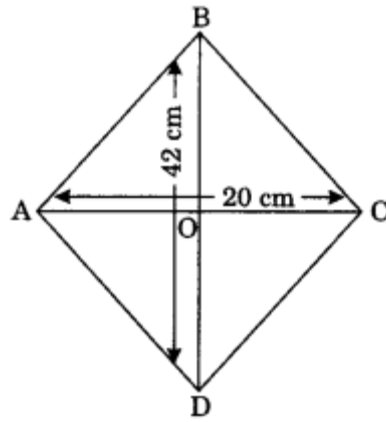
2x4=8

- 5) Determine the values of 'a' and 'c' of the given triangle.



- 6) Of the three angles of a triangle, one is three times the smallest and the other is five times the smallest. Find the angles.

- 7) The length of the diagonals of a rhombus is 42 cm and 40 cm. Find the perimeter of the rhombus.



- 8) AD is the median of a $\triangle ABC$, prove that $AB + BC + CA > 2AD$

