EXAMBUDDY

NCERT Solutions for Class 10 Chapter 6-Triangles

EXERCISE 6.1

Question 1:

Fill in the blanks by using the correct word given in brackets.

- (i) All circles are (congruent/similar)
- (ii) All squares are (similar/congruent)
- (iii) All triangles are similar. (isosceles/equilateral)
- (iv) Two polygons of the same number of sides are similar, if
- (a) their corresponding angles are and
- (b) their corresponding sides are (equal/proportional)

Solution:

Fill in the blanks.

- (i) All circles are similar.
- (ii) All squares are similar.
- (iii) All equilateral triangles are similar.
- (iv) Two polygons of the same number of sides are similar, if
- (a) their corresponding angles are equal and
- (b) their corresponding sides are proportional.

Question 2:

Give two different examples of pairs of

- (i) similar figures.
- (ii) non-similar figures.

Solution:

(i) Similar figures:

A pair of equilateral triangles of different side lengths, a pair of two rectabgles of different lengths and breadths, etc.

(ii) Non-similar figures:

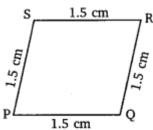
A pair of rectangle and a parallelogram with angles not equal to 90°, a pair of an isosceles triangle and a scalene triangle, etc.

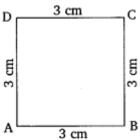
EXAMBUDDY

NCERT Solutions for Class 10 Chapter 6-Triangles

Question 3:

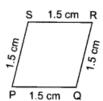
State whether the following quadrilaterals are similar or not.

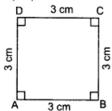




Solution:

No, the sides of quadrilateral PQRS and ABCD are proportional but their corresponding angles are not equal.





:. These are not similar.