

Exercise 6.1

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1. Fill in the blanks using correct word given in the brackets:-

(i) All circles are _____. (congruent, similar)

Answer: Similar

(ii) All squares are _____. (similar, congruent)

Answer: Similar

(iii) All _____ triangles are similar. (isosceles, equilateral)

Answer: 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)

Answer: (a) Equal

(b) Proportional

2. Give two different examples of pair of

(i) Similar figures

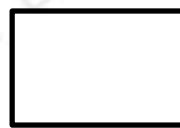
(ii) Non-similar figures

Solution:

(i) Example of two similar figure;

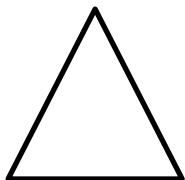


Two Equilateral Triangle

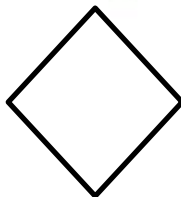


Two Rectangle

(ii) Example of two Non-similar figure;



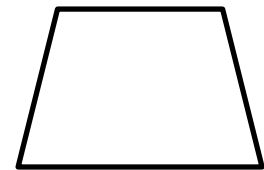
Triangle



Rhombus

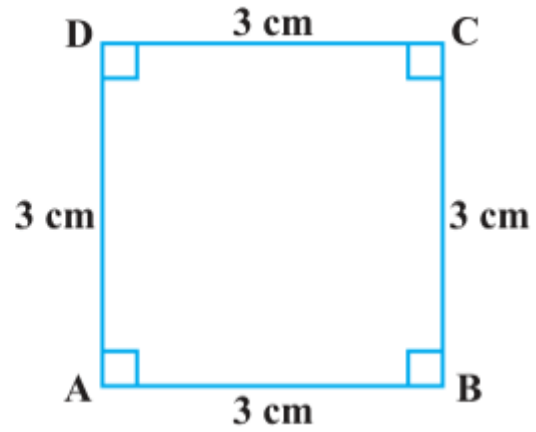
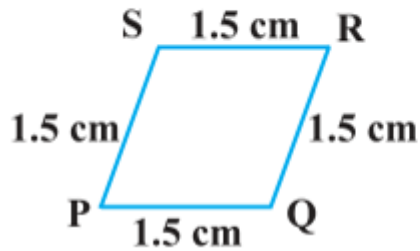


Rectangle



Trapezium

3. State whether the following quadrilaterals are similar or not:



Solution: From the given two figures, we can see their corresponding angles are different or unequal. Therefore they are not similar.

