

**EXERCISE 6.1**

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

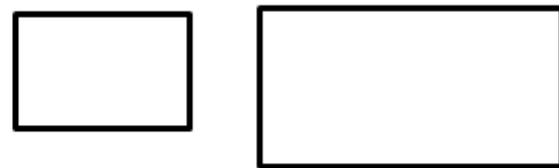
(ii) Non-similar figures

Solution:

(i) Example of two similar figure;



Two Equilateral Triangle



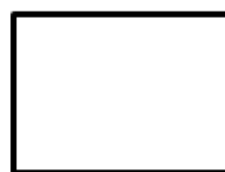
Two Rectangle

(ii) Example of two Non-similar figure;



Triangle

Rhombus

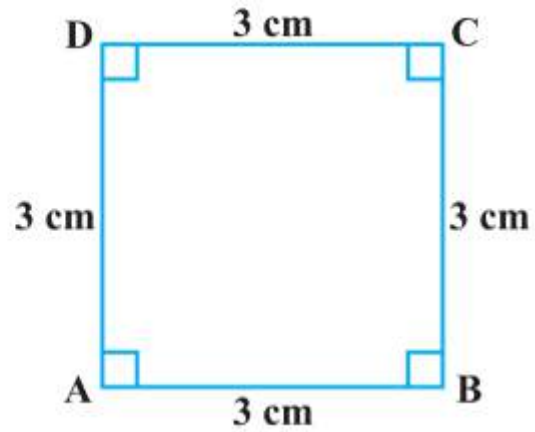
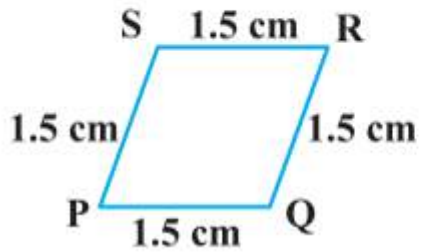


Rectangle



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.

