Chapter 6: Triangles

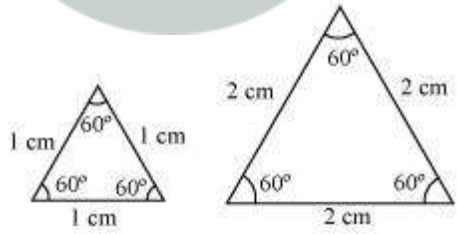
EXERCISE 6.1:

1. Fill in the blanks 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)

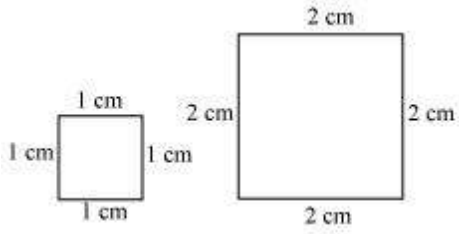
Solution: The solutions of the fill ups are:
(i) Similar
(ii) Similar
(iii) Equilateral
(iv) (a) Equal
(b) Proportional

2. Give two different examples of pair of
   (i) Similar figures
   (ii) Non-similar figures

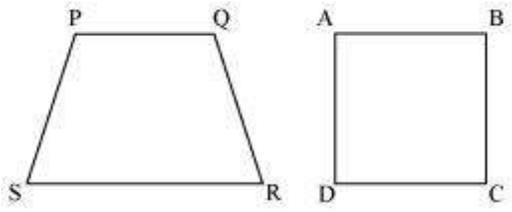
Solution: Two examples of similar figures are:
(i) Two equilateral triangles with sides 1 cm and 2 cm



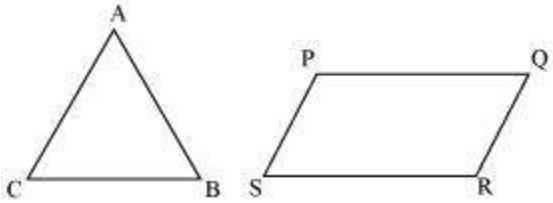
(ii) Two squares with sides 1 cm and 2 cm



Now two examples of non-similar figures are:
   (i) Trapezium and square

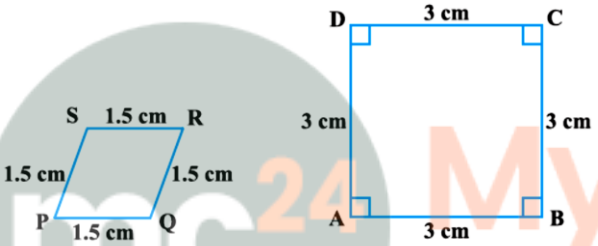


(ii) Triangle and parallelogram



###Topic###Maths||Triangles||Similar Figures### (Easy)

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



Solution: The given quadrilateral PQRS and ABCD are not similar because though their corresponding sides are proportional, i.e. 1:2, but their corresponding angles are not equal.