



SpeedLabs

MATHS

CBSE 10th

TEEVRA EDUTECH PVT. LTD.

Q.1 Fill in the blanks using correct word given in the 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)

Sol:

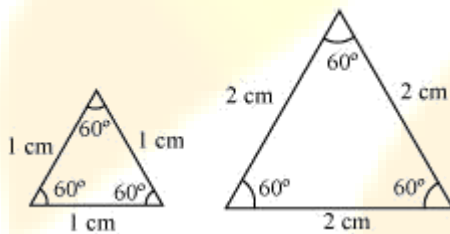
- (i) Similar
- (ii) Similar
- (iii) Equilateral
- (iv) (a) Equal (b) Proportional

Q.2 Give two different examples of pair of

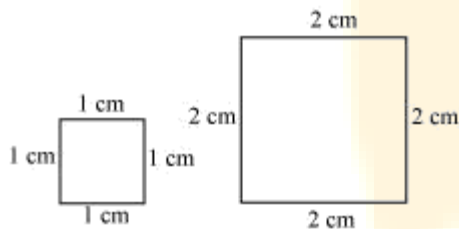
- (i) Similar figures
- (ii) Non-similar figures

Sol:

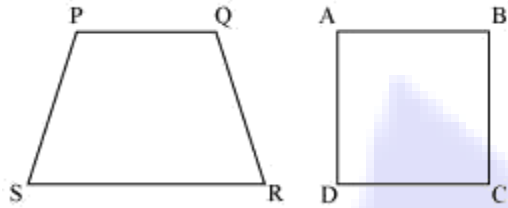
- (i) Two equilateral triangles with sides 1 cm and 2 cm



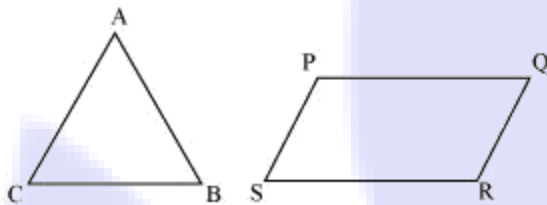
Two squares with sides 1 cm and 2 cm



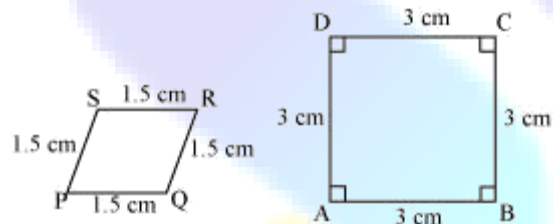
(ii) Trapezium and square



Triangle and parallelogram



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



Sol: Quadrilateral PQRS and ABCD are not similar as their corresponding sides are proportional, i.e. 1:2, but their corresponding angles are not equal.