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)

Ans. (i) similar

(ii) similar

(iii) equilateral

(iv) equal, proportional

2. Give two different examples of pair of:

(i) similar figures

(ii) non-similar figures

Ans. (i) Two different examples of pair of similar figures are:
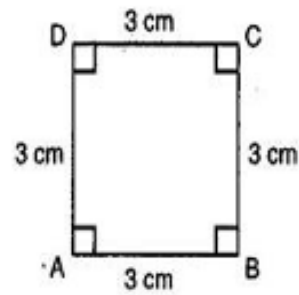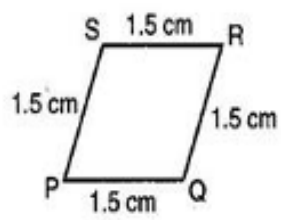
(a) Any two rectangles

(b) Any two squares

(ii) Two different examples of pair of non-similar figures are:

(a) A scalene and an equilateral triangle

(b) An equilateral triangle and a right angled triangle

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

Ans. On looking at the given figures of the quadrilaterals, we can say that they are not similar because their angles are not equal.

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