

**TRIANGAL****CONCEPT OF SIMILARITY****EXERCISE**

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, equilaterals).
- (iv) Two triangles are similar, if their corresponding angles are \_\_\_\_ (proportional, equal)
- (v) Two triangles are similar, if their corresponding sides are \_\_\_\_ (proportional, equal)
- (vi) Two polygons of the same number of sides are similar, if
  - (a) \_\_\_\_ their corresponding angles are and their corresponding sides are (b) \_\_\_\_ (equal, proportional).

**ANSWER KEY**

- (i) All circles are similar.
- (ii) All squares are similar.
- (iii) All equilateral triangles are similar.
- (iv) Two triangles are similar, if their corresponding angles are equal.
- (v) Two triangles are similar, if their corresponding sides are proportional.
- (vi) Two polygons of the same number of sides are similar, if
  - (a) equal their corresponding angles are and their corresponding sides are

(b) proportional