

**CBSE Class-10 Mathematics**

**NCERT solution**

**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)**

**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 a pair of similar figures are:**

**(a) Any two rectangles**

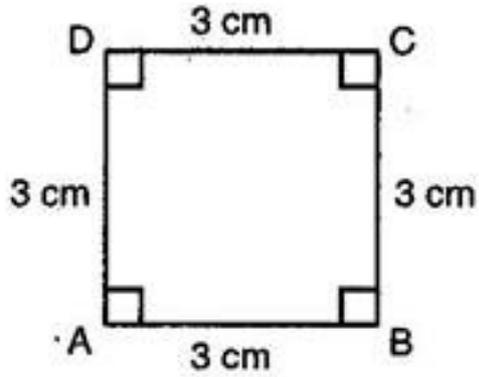
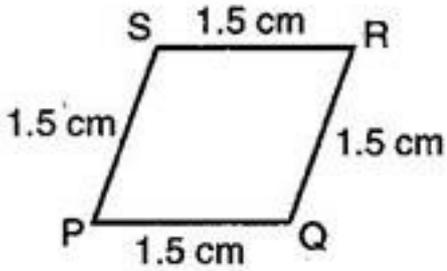
**(b) Any two squares**

**(ii) Two different examples of a 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.