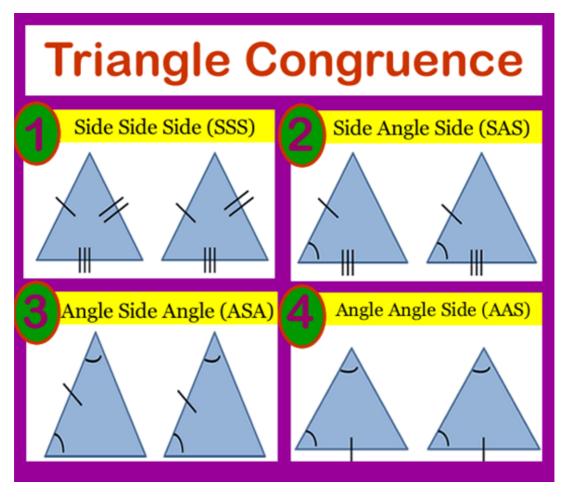
FlexiPrep: Downloaded from flexiprep.com [https://www.flexiprep.com/]

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NCERT Class 7 Mathematics Solutions: Chapter 7 – Congruence of Triangles Exercise 7.1 Part 1

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- 1. Complete the following statements:
- (a) Two line segments are congruent if_____.

(b) Among two congruent angles, one has a measure of 70° , the measure of other angle is		
(c) When we write $\angle A = \angle B$, we actually mean		
Answer:		
(a) Two line segments are congruent if they have the same length.		
(b) Among two congruent angles, one has a measure of $_{70^\circ}$, the measure of other angle is $_{70^\circ}$		

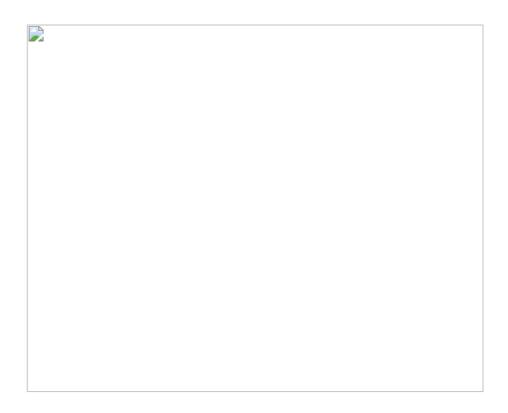
2. Give any two real time examples for congruent shapes.

(c) When we write $\angle A = \angle B$, we actually mean $m\angle A = m\angle B$.

Answer:

- (i) Two footballs
- (ii) Two teacher's tables.
- 3. If $\triangle ABC \cong \triangle FED$ under the correspondence $ABC \longleftrightarrow FED$, write all the corresponding congruent parts of the triangles.

Answer:



Given,

$$\Delta ABC \cong \Delta FED$$

The corresponding congruent parts of the triangles are:

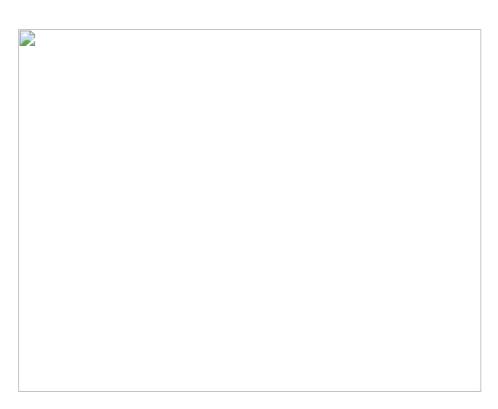
- (i) $\angle A \longleftrightarrow \angle F$
- (ii) $\angle B \longleftrightarrow \angle E$
- (iii) $\angle C \longleftrightarrow \angle D$
- (iv) $\overline{AB} \longleftrightarrow \overline{FE}$
- (v) $\overline{BC} \longleftrightarrow \overline{ED}$

(vi)	$\overline{AC} \leftarrow$	$\rightarrow \overline{FD}$

4. If $\triangle DEF \cong \triangle BCA$, write the part (s) of $\triangle BCA$ that correspond to:

- (i) ∠E
- (ii) \overline{EF}
- (iii) ∠F
- (iv) \overline{DF}

Answer:



 $\Delta DEF \cong \Delta BCA$

- (ii) $\overline{EF} \longleftrightarrow \overline{CA}$
- (iii) $\angle F \longleftrightarrow \angle A$
- (iv) $\overline{DF} \longleftrightarrow \overline{BA}$