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

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## Triangle Congruence



3 Angle Side Angle (ASA)


1. Complete the following statements:
(a) Two line segments are congruent if $\qquad$ .
(b) Among two congruent angles, one has a measure of $70^{\circ}$, the measure of other angle is $\qquad$ .
(c) When we write $\angle A=\angle B$, we actually mean $\qquad$ _.

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 $70^{\circ}$
(c) When we write $\angle A=\angle B$, we actually mean $m \angle A=m \angle B$.
2. Give any two real time examples for congruent shapes.

Answer:
(i) Two footballs
(ii) Two teacher's tables.
3. If $\triangle A B C \cong \triangle F E D$ under the correspondence $A B C \longleftrightarrow F E D$, write all the corresponding congruent parts of the triangles.

Answer:


Given,

$$
\triangle A B C \cong \triangle F E D
$$

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) $\overline{A B} \longleftrightarrow \overline{F E}$
(v) $\overline{B C} \longleftrightarrow \overline{E D}$
(vi) $\overline{A C} \longleftrightarrow \overline{F D}$
4. If $\triangle D E F \cong \triangle B C A$, write the part (s) of $\triangle B C A$ that correspond to:
(i) $\angle E$
(ii) $\overline{E F}$
(iii) $\angle F$
(iv) $\overline{D F}$

Answer:

$\triangle D E F \cong \triangle B C A$
(i) $\angle E \longleftrightarrow \angle C$
(ii) $\overline{E F} \longleftrightarrow \overline{C A}$
(iii) $\angle F \longleftrightarrow \angle A$
(iv) $\overline{D F} \longleftrightarrow \overline{B A}$

