

**CBSE Class –VII Mathematics**  
**NCERT Solutions**  
**Chapter 7 Congruence of Triangles (Ex. 7.1)**

**Question 1.** Complete the following statements:

1. Two line segments are congruent if \_\_\_\_\_.
2. Among two congruent angles, one has a measure of  $70^\circ$ , the measure of other angle is \_\_\_\_\_.
3. When we write  $\angle A = \angle B$ , we actually mean \_\_\_\_\_.

**Answer:** (a) they have the same length

(b)  $70^\circ$

(c)  $m\angle A = m\angle B$

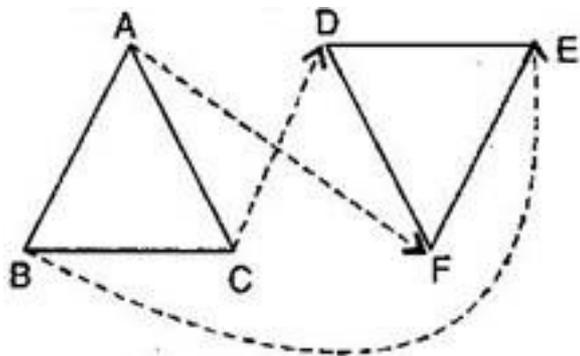
**Question 2.** Give any two real time examples for congruent shapes.

**Answer:** (i) Two footballs

(ii) Two teacher's tables

**Question 3.** If  $\triangle ABC \cong \triangle FED$  under the correspondence  $ABC \leftrightarrow FED$ , write all the corresponding congruent parts of the triangles.

**Answer:** Given:  $\triangle ABC \cong \triangle FED$ .



The corresponding congruent parts of the triangles are:

(i)  $\angle A \leftrightarrow \angle F$

(ii)  $\angle B \leftrightarrow \angle E$

(iii)  $\angle C \leftrightarrow \angle D$

(iv)  $\overline{AB} \leftrightarrow \overline{FE}$

(v)  $\overline{BC} \leftrightarrow \overline{ED}$

(vi)  $\overline{AC} \leftrightarrow \overline{FD}$

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

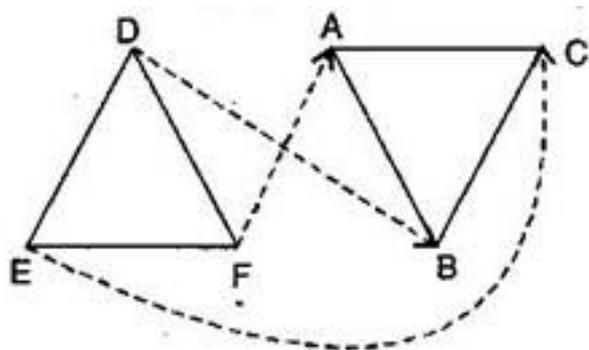
i.  $\angle E$

ii.  $\overline{EF}$

iii.  $\angle F$

iv.  $\overline{DF}$

**Answer:** Given:  $\triangle DEF \cong \triangle BCA$ .



(i)  $\angle E \leftrightarrow \angle C$

(ii)  $\overline{EF} \leftrightarrow \overline{CA}$

(iii)  $\angle F \leftrightarrow \angle A$

(iv)  $\overline{DF} \leftrightarrow \overline{BA}$