SpeedLabs
MATHS

CBSE 7th

TEEVRA EDUTECH PVT. LTD.

Congruence of Triangles
Exercise-7.1

> SpeedLabs

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Q.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 the other angle is _____.

(c) When we write ∠A = ∠ B, we actually mean _____.

Sol: (a) They have the same length

(b) 70°

(c) m ∠A = m ∠B

Q.2 Give any two real-life examples for congruent shapes.

Sol: (i) Sheets of same letter pad

(ii) Biscuits in the same packet

Q.3 If ΔABC ≅ ΔFED under the correspondence ABC ↔ FED, write all the Corresponding congruent parts of the triangles.

Sol: If these triangles are congruent, then the corresponding angles and sides will be equal to each other.

∠A ↔ ∠F

∠B ↔ ∠E

∠C ↔ ∠D

$\overline{AB} \leftrightarrow \overline{FE}$

$\overline{BC} \leftrightarrow \overline{ED}$

$\overline{CA} \leftrightarrow \overline{DF}$

Q.4 If ΔDEF ≅ ΔBCA, write the part(s) of ΔBCA that correspond to

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

Sol: (i) ∠C   (ii) $\overline{CA}$ (iii) ∠A   (iv) $\overline{BA}$