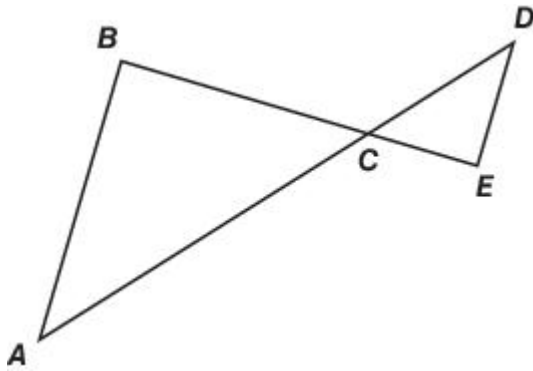


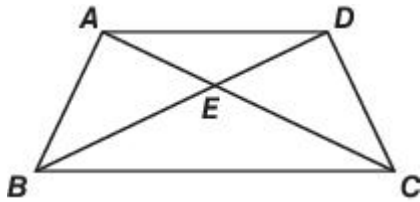
**Directions:** Please choose the best answer choice for each of the following questions.

1. Which statement is sufficient to prove that  $\triangle ABC \sim \triangle DEC$ ?



- A.  $\overline{AB} \parallel \overline{DE}$
- B.  $\overline{AB} \perp \overline{BE}$
- C.  $\overline{AC} \cong \overline{CD}$
- D.  $\angle ACB \cong \angle ECD$

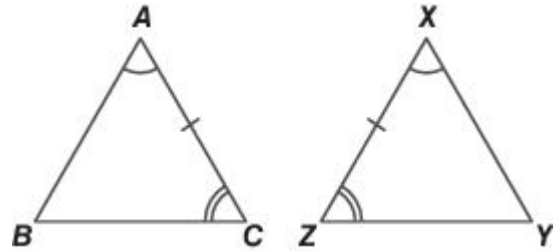
2. In the diagram,  $\triangle ACB \cong \triangle DBC$ .



Which other triangles can be proved congruent?

- A.  $\triangle ADE \cong \triangle BCE$
- B.  $\triangle ADE \cong \triangle CBE$
- C.  $\triangle ABE \cong \triangle CDE$
- D.  $\triangle ABE \cong \triangle DCE$

3. Given:  $\triangle ABC$  and  $\triangle XYZ$

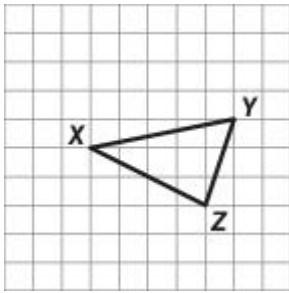


Which pair of relationships between  $\triangle ABC$  and  $\triangle XYZ$  is correct?

- A.  $\angle A \cong \angle Y$  and  $\overline{AB} \cong \overline{XY}$
- B.  $\overline{AB} \cong \overline{XZ}$  and  $\overline{BC} \cong \overline{YX}$
- C.  $\angle A \cong \angle X$  and  $\triangle ABC \cong \triangle XYZ$
- D.  $\triangle ABC \cong \triangle XYZ$  and  $\overline{AC} \cong \overline{ZY}$

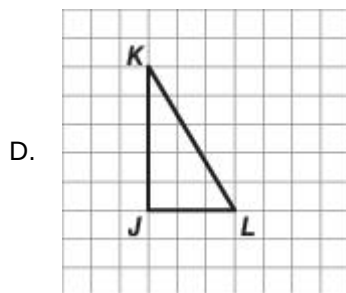
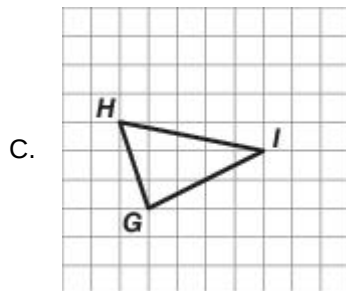
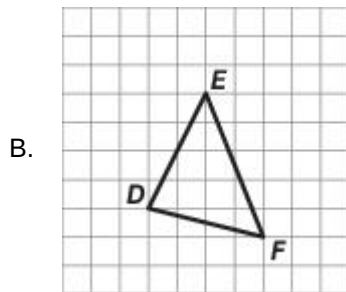
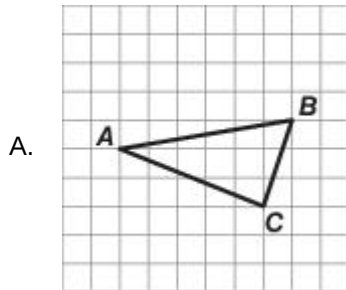
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4. Which diagram shows a triangle drawn so that it is congruent to  $\triangle XYZ$  ?



5. Given  $\triangle ABC$  and  $\triangle DEF$ , and that  $\overline{AC} \cong \overline{DF}$ ,  $\overline{AB} \cong \overline{DE}$ , and  $\overline{BC} \cong \overline{EF}$ , which postulate BEST describes how we know the two triangles are congruent?

- A. AAA
- B. AAS
- C. SAS
- D. SSS



Stop! You have finished this exam.