

Given:  $\overline{AB} \perp \overline{CD}$

Q. 10



Match the additional information needed to prove  $\triangle ACD \cong \triangle BCD$  using the following methods.

1  $\angle ACD \cong \angle BCD$

2  $\overline{AC} \cong \overline{BC}$

3  $\angle A \cong \angle B$

4  $\overline{AD} \cong \overline{BD}$

5  $\overline{AC} \cong \overline{BC}$   
 $\overline{AD} \cong \overline{BD}$

| Statements | Reason |
|------------|--------|
| A          | ASA ✓  |
| B          | AAS ✓  |
| C          | SAS ✓  |
| D          | HL ✓   |
| E          | SSS    |