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NUMBER TALKS FOR GEOMETRY

Awesome Prompts for Mathematical Thinking

created by Jackie Palmquist and Friends



thumbsupmath.com

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organized by
Geometry
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Sample Page

Classroom ready

Projectable
prompt

Discourse cues

Talk Tips

Differentiation

Backup/Extensions

Student tested

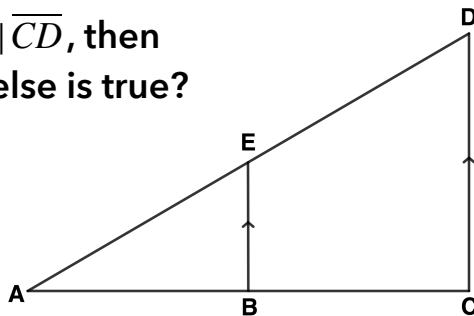
Sample Answers

Personalize

Notes

Color coded for
quick reference

If $\overline{BE} \parallel \overline{CD}$, then
what else is true?



Talk Tips

Encourage students to name angles in different ways, such as $\angle DAC \cong \angle EAB$. For example, "Can anyone restate ___'s answer using different angle names?"

Backup/Extension Problems

What do you think might be true about $\triangle ABE$ and $\triangle ACD$?
If $m\angle ABE = 90^\circ$; how can you calculate $m\angle BED$?

Sample Student Responses:

$$\angle AEB \cong \angle ADC$$

$$\angle ABE \cong \angle ACD$$

$\overline{BE} \& \overline{CD}$ have the same slope

$\overline{BE} \& \overline{CD}$ will never intersect

$$\triangle AEB \sim \triangle ADC$$

Incorrect responses to inspect.

$$\overline{AB} \perp \overline{BE}, \overline{AC} \perp \overline{DC}, \overline{AB} \perp \overline{DC}, \overline{AB} \cong \overline{BC}$$

Notes:

Parallel and Perpendicular

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