DO NOW

GRADE 8 · 5 MINUTES · START RIGHT AWAY

Lesson 6-9b

Find Exterior Angle Measures

Name _____ Date _____ Per _____

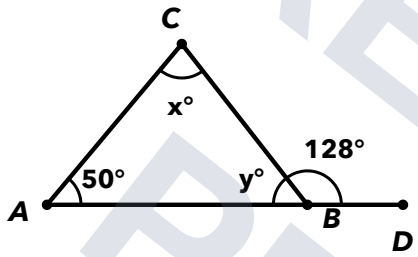
1 FLUENCY

The two remote interior angles of a triangle measure 45° and 70°. Find the exterior angle.

Exterior angle = ☐

2 VISUAL MODEL

Side *AB* is extended to *D*. Find *x* and *y*.



x = ☐

y = ☐

3 APPLICATION

A ramp leans against a vertical post that meets the ground at 90°. The exterior angle between the ramp and the ground (outside the triangle) is 145°. Find the angle at the top and at the bottom of the ramp.

Top: _____ Bottom (inside): _____

WORK

4 REASONING

Is the statement always, sometimes, or never true? Explain.

An exterior angle of a triangle is greater than each of its remote interior angles.

always **sometimes** **never**

_____

_____

*We don't divide our effort, we **multiply** it!*

✎ Show your work ✓ Check your work ★ Try your best

Preview - the full worksheet and its answer key are at primeworksheet.com