DO NOW

GEOMETRY · 5 MINUTES · START RIGHT AWAY

Lesson 8-1b **Use the Pythagorean Theorem and Its Converse**

Name _____ Date _____ Per _____

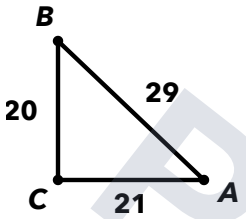
1 FLUENCY

A right triangle has legs 8 and 15. Find the hypotenuse.

$c = \sqrt{8^2 + 15^2} =$ ☐

2 VISUAL MODEL

Use the Converse of the Pythagorean Theorem. Is this a right triangle?



$20^2 + 21^2 =$ ☐ $29^2 =$ ☐

right? **Yes** or **No**

right angle at ☐

3 APPLICATION

A 26-ft ladder leans against a wall. Its base is 10 ft from the wall. How high up the wall does the ladder reach?

height = _____

WORK

4 REASONING

Select TWO sets of side lengths that form right triangles.

- **A** 9, 12, 15
- **B** 5, 7, 9
- **C** 8, 15, 16
- **D** 11, 60, 61

*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