DO NOW

GEOMETRY · 5 MINUTES · START RIGHT AWAY

Lesson 2-2d

Construct a Parallel Line

Name _____ Date _____ Per _____

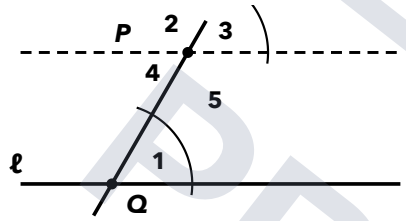
1 FLUENCY

Number the steps 1–4 to construct a line through P parallel to ℓ.

- ☐ Draw an arc centered at P with the same compass setting.
- ☐ Draw a line through P that crosses ℓ at Q.
- ☐ Copy $\angle 1$'s opening onto the arc at P; draw the line.
- ☐ Draw an arc centered at Q crossing both sides of $\angle 1$.

2 VISUAL MODEL

The dashed line through P is being constructed parallel to ℓ by copying $\angle 1$. Which angle at P must be congruent to $\angle 1$? What type of pair is it?



$\angle$ 2 3 4 5

_____

3 APPLICATION

Ella paints a stripe that meets a curb at a 58° angle. She wants the next stripe to be parallel to it. What angle must the next stripe make with the curb, and in which position?

_____ _____

WORK

4 REASONING

Is the statement **always**, **sometimes**, or **never** true? Explain. "Through a point P not on line ℓ, you can draw two different lines parallel to ℓ."

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