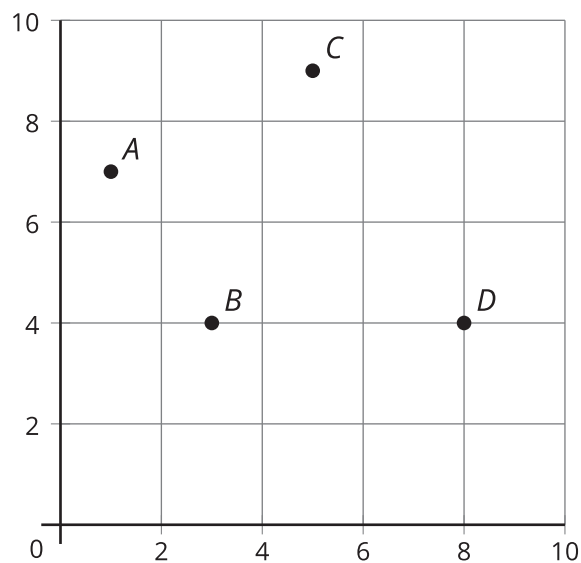# Patterns and Ordered Pairs

Let's represent patterns on the coordinate grid.

Warm-up

Notice and Wonder: The Coordinate Grid

What do you notice? What do you wonder?

Patterns on the Coordinate Grid (Part 1)
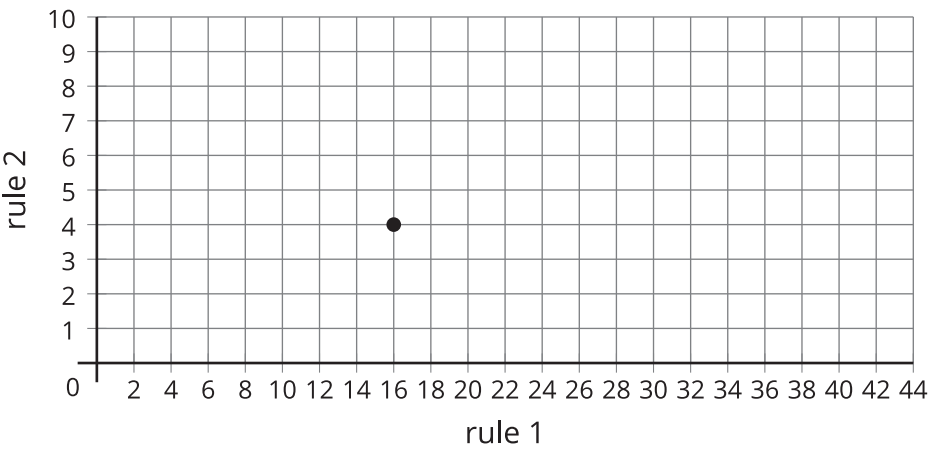
Partner A

Both patterns start with 0.

Rule 1: Keep adding 8.

Rule 2: Keep adding 2.

1. Use the rules to complete the table.

	A	*B*	*C*	*D*	*E*	*F*
rule 1						
rule 2						

2. Which column in the table represents the point plotted on this coordinate grid? Label the point with that column's letter.

3. Plot and label the rest of the points.
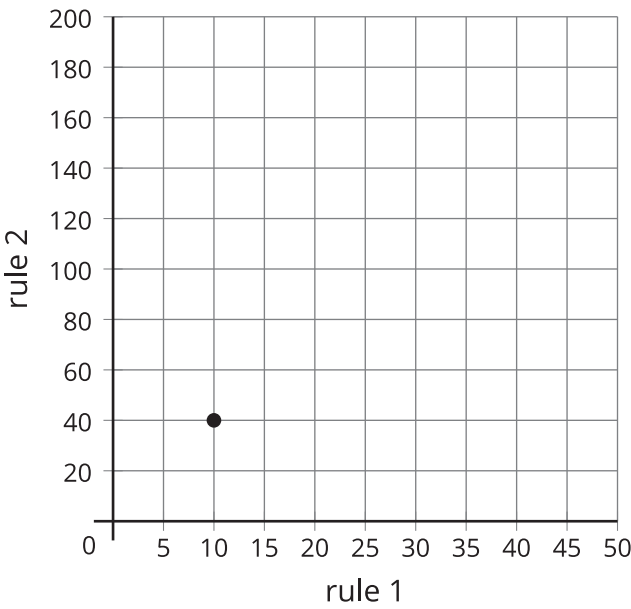
Partner B

Both patterns start with 0.

Rule 1: Keep adding 10.

Rule 2: Keep adding 40.

1. Use the rules to complete the table.

	A	*B*	*C*	*D*	*E*	*F*
rule 1						
rule 2						

2. Which column in the table represents the point plotted on this coordinate grid? Label the point with that column's letter.
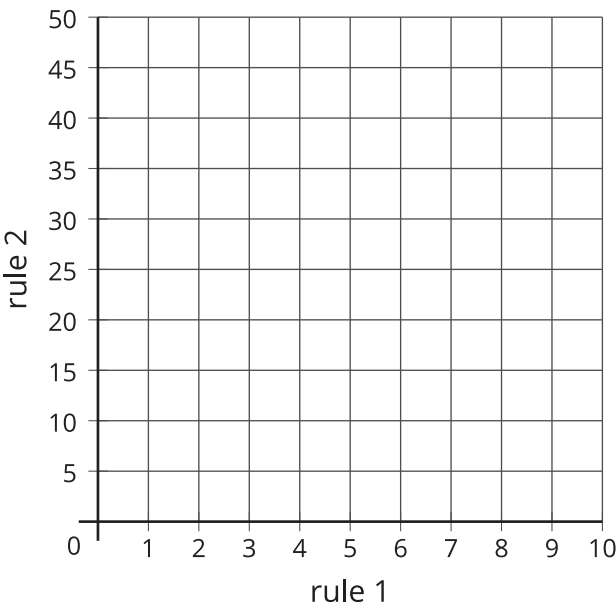

3. Plot and label the rest of the points.

Patterns on the Coordinate Grid (Part 2)

1. Use the rules to complete the table. Both patterns start with 0.

   ◦ Rule 1: Add 2.

   ◦ Rule 2: Add 5.

	A	*B*	*C*	*D*	*E*	*F*
rule 1						
rule 2						

2. What relationships do you notice between the corresponding terms of the two patterns?

_____

3. Plot and label the points from the table.

4. What does the Point *C* tell you about Rule 1 and Rule 2?

_____