



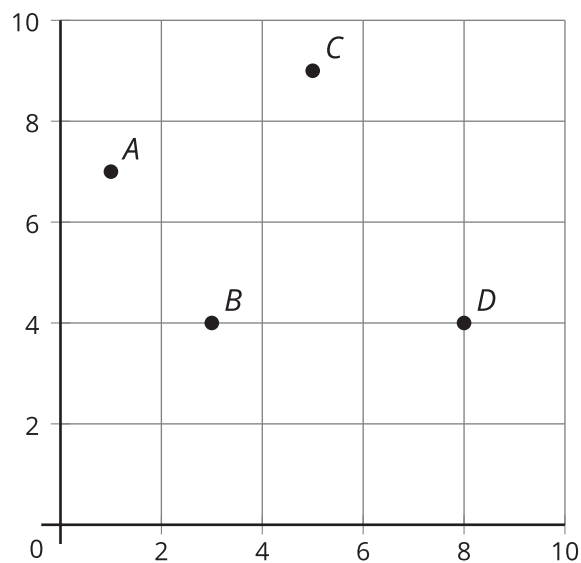
# Patterns and Ordered Pairs

Let's represent patterns on the coordinate grid.

## Warm-up

### Notice and Wonder: The Coordinate Grid

What do you notice? What do you wonder?



Activity 1

Patterns on the Coordinate Grid (Part 1)

Partner A

Both patterns start with 0.

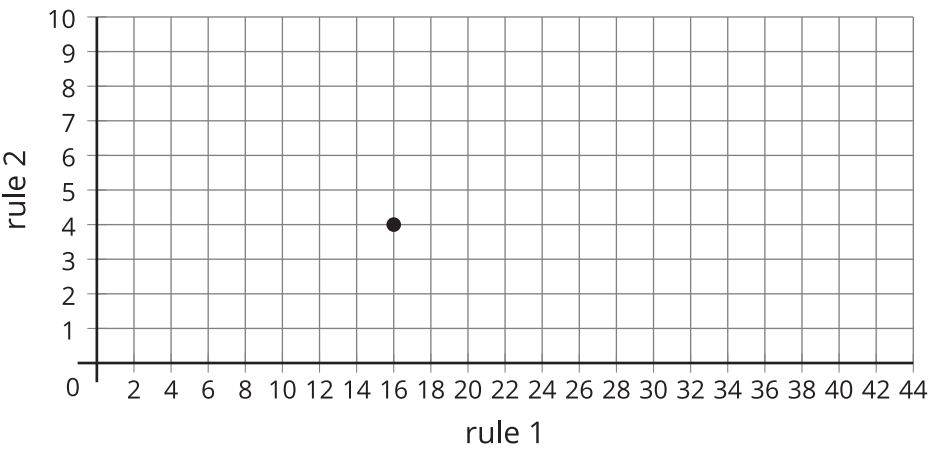
Rule 1: Keep adding 8.

Rule 2: Keep adding 2.

1. Use the rules to complete the table.

|        | <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> | <i>E</i> | <i>F</i> |
|--------|----------|----------|----------|----------|----------|----------|
| 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.

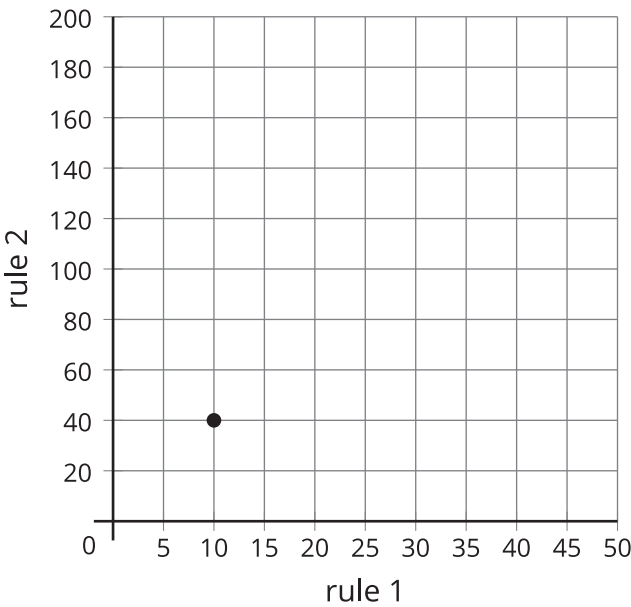
Rule 1: Keep adding 10.

Rule 2: Keep adding 40.

1. Use the rules to complete the table.

|        | <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> | <i>E</i> | <i>F</i> |
|--------|----------|----------|----------|----------|----------|----------|
| 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.



Activity 2

### Patterns on the Coordinate Grid (Part 2)

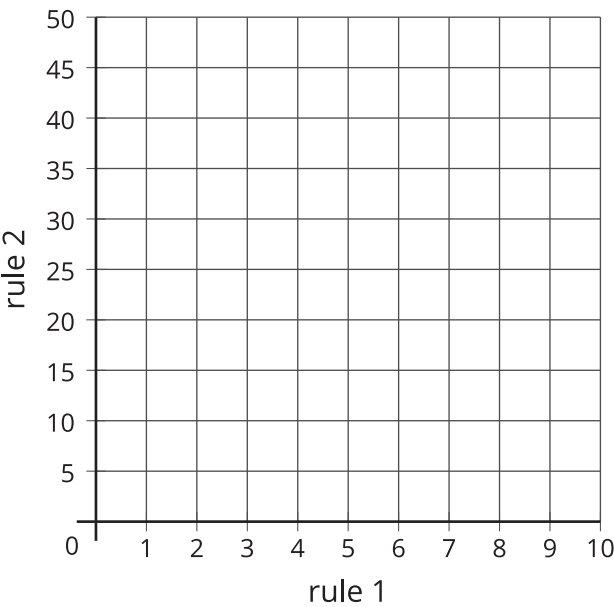
- Use the rules to complete the table. Both patterns start with 0.
  - Rule 1: Add 2.
  - Rule 2: Add 5.

|        | <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> | <i>E</i> | <i>F</i> |
|--------|----------|----------|----------|----------|----------|----------|
| rule 1 |          |          |          |          |          |          |
| rule 2 |          |          |          |          |          |          |

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

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- Plot and label the points from the table.



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

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