

# Activity 15 Assessment

## Exploring Proportional and Non-Proportional Situations

### Exploring Proportional and Non-Proportional Situations

Identifies a proportional situation in a table of values or a ratio table

1	2	3	4	5
3	6	9	12	15

This is a proportional situation because the ratios are equal:

$$\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12} = \frac{5}{15}$$

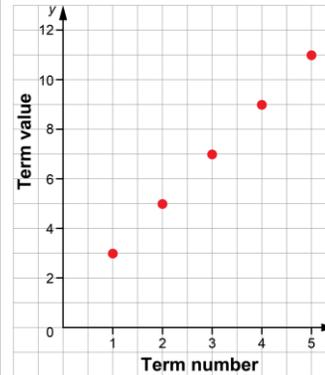
Identifies a non-proportional situation in a table of values or a ratio table

1	2	3	4	5
4	9	14	19	24

This is not a proportional situation because the ratios are not equal:

$$\frac{1}{4} \neq \frac{2}{9} \neq \frac{3}{14} \neq \frac{4}{19} \neq \frac{5}{24}$$

Identifies whether a graph represents a proportional situation



The coordinates do not have the same ratio and the line will not pass through the origin, so the graph does not represent a proportional situation.

Chooses a strategy to solve a proportion problem

In a design, the ratio of rectangles to squares is 3 to 7. There are 56 squares. How many rectangles are there?

Make a ratio table and extend it to 56 squares.

Rectangles	Squares
3	7
6	14
9	21
12	28
15	35
18	42
21	49
24	56

There are 24 rectangles.

### Observations/Documentation