MATH

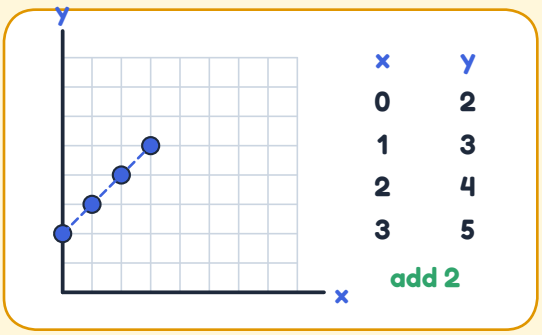
# Graphing ordered pairs

Name _____ Date _____

I can make a table from a rule and graph the points.

## 1 How it works

A rule like "add 2" turns each x number into a y number: 0 becomes 2, 1 becomes 3, and so on. Write the pairs in a table, then plot each (x, y) on the grid. Points from a rule like this line up. Graphs of real stories, like money saved each week, help you answer questions by reading the points.

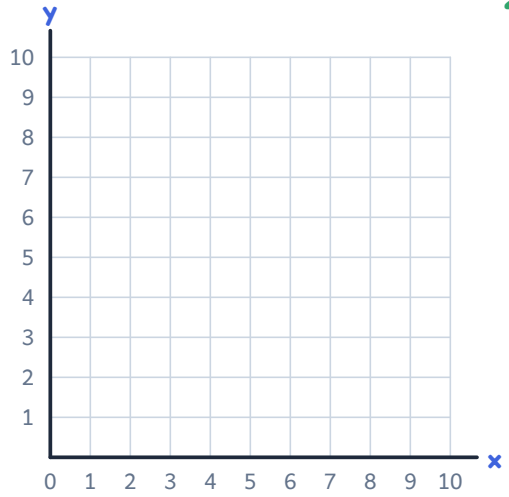



## 2 Complete the table, then plot the points

x across, y up

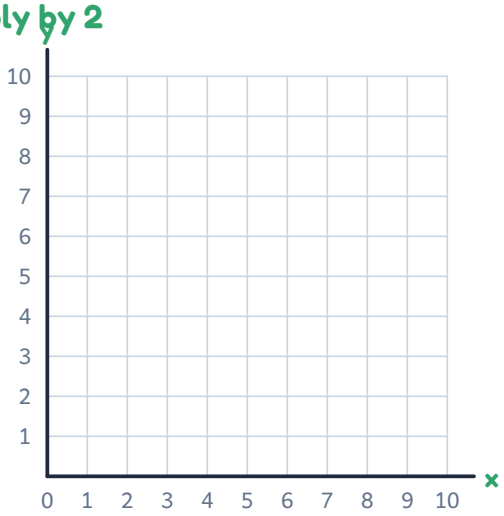
### 1. Rule: Add 5

| x | y |
|---|---|
| 0 | |
| 1 | |
| 2 | |
| 3 | |
| 4 | |




### 2. Rule: Multiply by 2

| x | y |
|---|---|
| 0 | |
| 1 | |
| 2 | |
| 3 | |
| 4 | |




How did I do? ☆ ☆ ☆

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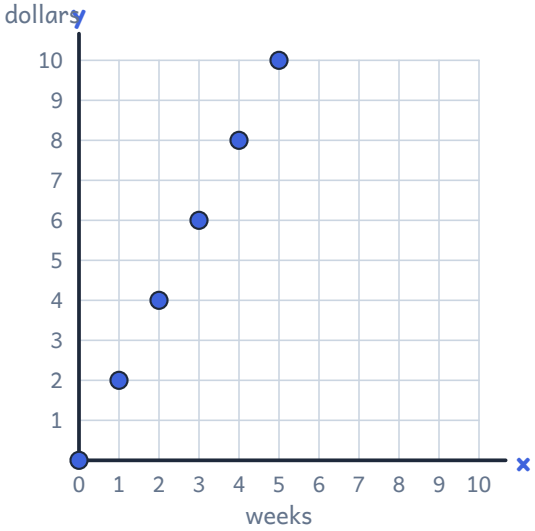
# Read the graph

Name _____ Date _____

I can read points on a graph to answer questions.

## 1 Money saved

Hana saves $2 each week.



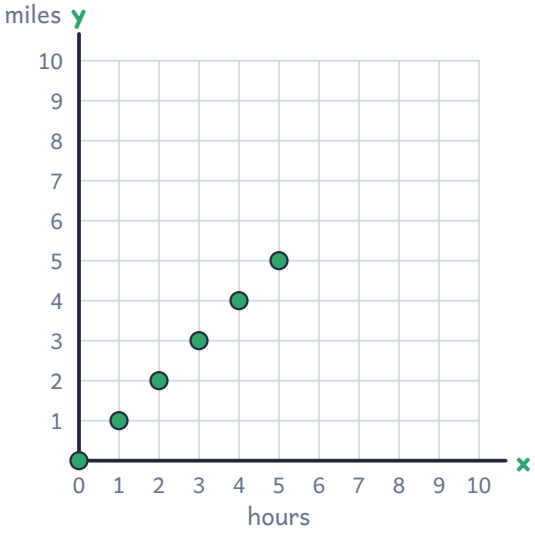

How much after 2 weeks?

After how many weeks is it $8?

How much more each week?

## 2 Miles walked

Ali walks 1 mile each hour.




How far after 3 hours?

After how many hours is it 4 miles?

What does the point (0, 0) mean?

**How did I do?**

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# Two patterns

Name _____ Date _____

I can compare two number patterns.

## 1 Complete both patterns

Pattern A: start at 0, add 1. Pattern B: start at 0, add 2.

| Step | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| A | 0 | 1 | | | | |
| B | 0 | 2 | | | | |

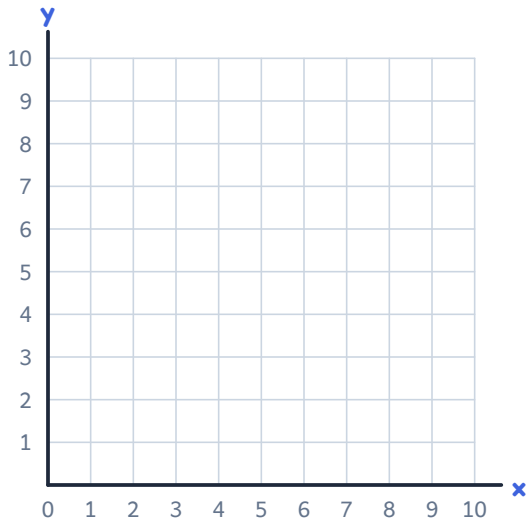
## 2 Write the pairs (A, B) and plot them

( , )

( , )

( , )

( , )




## 3 Think about it

1. Each term in B is how many times the term in A?

2. What do all the points have in common?

**How did I do?**

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# Word problems

Name _____ Date _____

I can use geometry to solve problems.

## 1 Read, think, answer

Draw a picture in the box.

1 Sara saves $3 every week, starting with $0. Write the ordered pairs (week, dollars) for weeks 0 to 3.

Answer: _____

2 Leo walks 2 miles every hour. After how many hours has Leo walked 8 miles?

Answer: _____

3 A plant is 1 inch tall and grows 2 inches each week. How tall is it after 3 weeks?

Answer: _____

4 Pattern A adds 3: 0, 3, 6, 9. Pattern B adds 6: 0, 6, 12, 18. How do the terms of B compare with A?

Answer: _____

**How did I do?**

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FOR TEACHERS AND PARENTS

# Answer key: graphing ordered pairs

## 1 Page 1

1) Add 5: (0, 5), (1, 6), (2, 7), (3, 8), (4, 9).
2) Multiply by 2: (0, 0), (1, 2), (2, 4), (3, 6), (4, 8).

## 2 Page 2

Money: 1) $4; 2) 4 weeks; 3) $2.
Miles: 1) 3 miles; 2) 4 hours; 3) at the start, Ali has walked 0 miles.

## 3 Page 3

Pattern A: 0, 1, 2, 3, 4, 5. Pattern B: 0, 2, 4, 6, 8, 10.
Pairs: (0, 0), (1, 2), (2, 4), (3, 6).
Think: 1) 2 times; 2) They lie on a straight line through (0, 0).

## 4 Page 4: word problems

1) (0, 0), (1, 3), (2, 6), (3, 9)
2) 4 hours (the point (4, 8))
3) 1 + 2 × 3 = 7 inches
4) Each term in B is twice the matching term in A.

## 5 Teaching tip 💡

After plotting, ask what the line would look like if the rule were "add 3" instead. Predicting a steeper line helps children connect the rule to the picture.



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