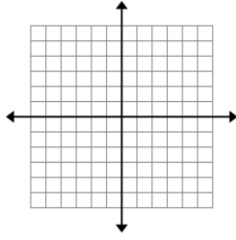


# Slope

## Long-Term Memory Review – Grade 7

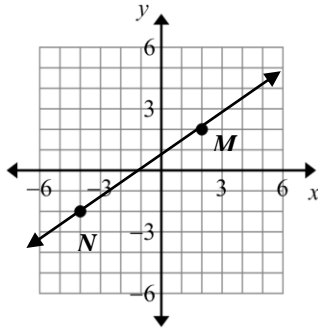
### Review 1

1. Label the following parts on the coordinate plane.     $x$ -axis     $y$ -axis    origin

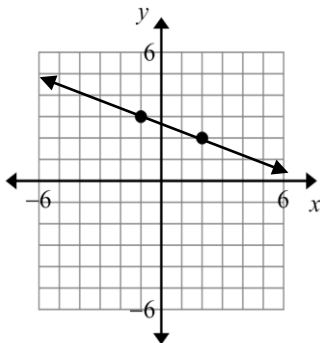


2. Which method would find the slope of a line?
- A) Divide the vertical change by the horizontal change.
  - B) Divide the horizontal change by the vertical change.
  - C) Multiply the vertical change by the horizontal change.
  - D) Multiply the horizontal change by the vertical change.

Use the graph to answer the questions.



- 3. What is the horizontal change from  $N$  to  $M$ ?
- 4. What is the vertical change from  $N$  to  $M$ ?
- 5. What is the slope of  $\overline{NM}$ ?
- 6. Determine the slope of the line below.

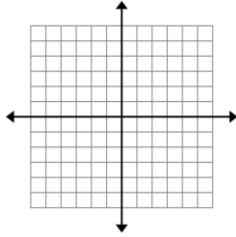


# Slope

## Long-Term Memory Review – Grade 7

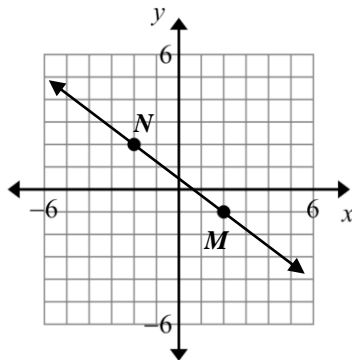
### Review 2

1. Label the following parts on the coordinate plane.     $x$ -axis     $y$ -axis    origin

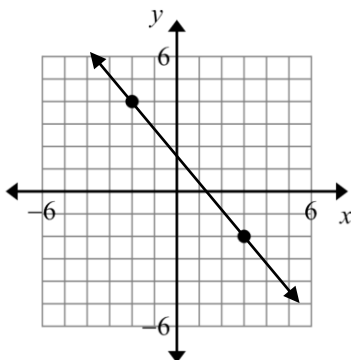


2. What is the method used to find the slope of a line?

Use the graph to answer the questions.



3. What is the horizontal change from  $N$  to  $M$ ?
  4. What is the vertical change from  $N$  to  $M$ ?
  5. What is the slope of  $\overline{NM}$  ?
6. What is the slope of the line below?



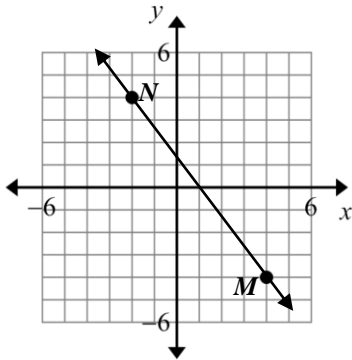
# Slope

## Long-Term Memory Review – Grade 7 Review 3

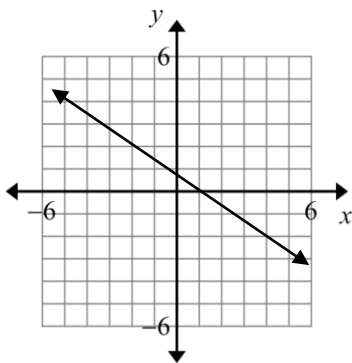
Label the following statements as True or False. If your answer is False, correct the mistake to make the statement true.

1. The coordinate plane is made up of two perpendicular number lines, vertical and horizontal.
2. The vertical number line on a coordinate plane is called the  $x$ -axis.
3. To find the slope of a line, the horizontal change is divided by the vertical change.
4. The horizontal number line on a coordinate plane is called the  $x$ -axis.

Use the graph to answer the questions.



5. What is the horizontal change from  $N$  to  $M$ ?
6. What is the vertical change from  $N$  to  $M$ ?
7. What is the slope of  $\overline{NM}$ ?
8. Determine the slope of the line below.



# Slope

## Long-Term Memory Review – Grade 7 Review 4

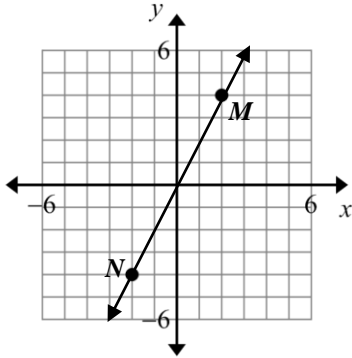
Place the number of the definition on the line next to the appropriate term.

### Definitions

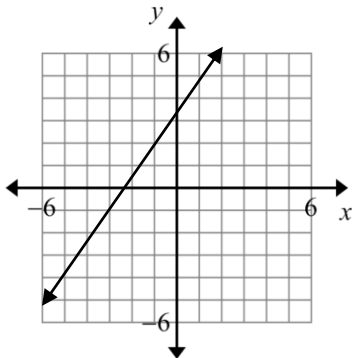
1. The steepness of a linear graph
2. The vertical change of a linear graph
3. The horizontal number line of a coordinate plane
4. The vertical number line of a coordinate plane

**Terms** \_\_\_\_\_ y-axis \_\_\_\_\_ slope \_\_\_\_\_ x-axis \_\_\_\_\_ rise \_\_\_\_\_ run

Use the graph to answer the questions.



5. What is the horizontal change from  $N$  to  $M$ ?
6. What is the vertical change from  $N$  to  $M$ ?
7. What is the slope of  $\overline{NM}$  ?
8. What is the slope of the line below?



# Slope

## Long-Term Memory Review – Grade 7

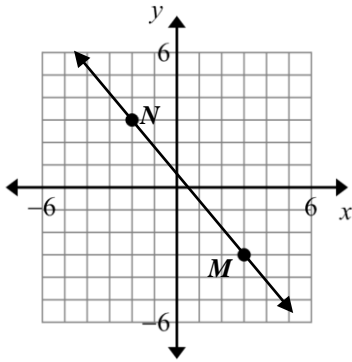
### Quiz

Use the following words to fill in the blanks.

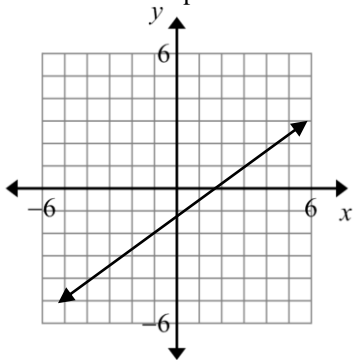
*slope*      *rise*      *run*      *x-axis*      *y-axis*      *coordinate plane*

- \_\_\_\_\_ describes the steepness of the graph of a line. The \_\_\_\_\_ represents the vertical change, while the \_\_\_\_\_ represents the horizontal change.
- The \_\_\_\_\_ is the horizontal number line, and the \_\_\_\_\_ is the vertical number line. These intersect and are perpendicular to form the \_\_\_\_\_.

Use the graph to answer the questions.



- What is the horizontal change from  $N$  to  $M$ ?
  - What is the vertical change from  $N$  to  $M$ ?
  - What is the slope of  $\overline{NM}$ ?
6. Determine the slope of the line below.

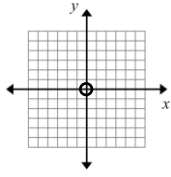


# Slope

## Long-Term Memory Review – Grade 7

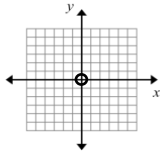
### Answers

#### Review 1- Answers



- 1)
- 2) A; divide the vertical change by the horizontal change
- 3) 6
- 4) 4
- 5)  $\frac{2}{3}$
- 6)  $-\frac{1}{3}$

#### Review 2- Answers



- 1)
- 2)  $\frac{\text{vertical change}}{\text{horizontal change}} = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$
- 3) 4
- 4) -3
- 5)  $-\frac{3}{4}$
- 6)  $-\frac{6}{5}$

#### Review 3- Answers

- 1) True
- 2) False: x-axis should be y-axis
- 3) False: horizontal should be vertical and vice-versa
- 4) True
- 5) 6
- 6) -8
- 7)  $-\frac{4}{3}$
- 8)  $-\frac{2}{3}$

#### Review 4- Answers

- 1) slope
- 2) rise
- 3) x-axis

## Slope

### Long-Term Memory Review – Grade 7

- 4) y-axis
- 5) 4
- 6) 8
- 7) 2
- 8)  $\frac{3}{2}$

### Quiz - Answers

- 1) slope; rise; run
- 2) x-axis; y-axis; coordinate plane
- 3) 5
- 4) -6
- 5)  $-\frac{6}{5}$
- 6)  $\frac{3}{4}$