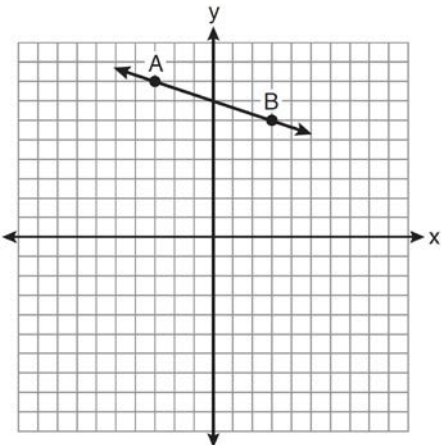
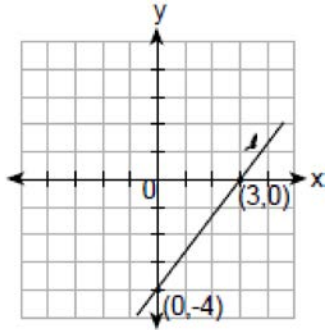


**S.ID.C.7: Slope 1**

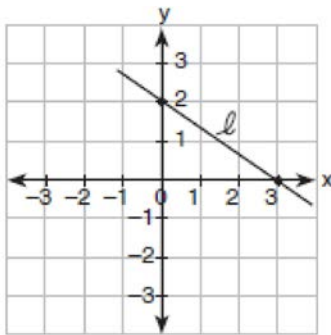
- 1 If a line is horizontal, its slope is  
1) 1 2) 0 3) undefined 4) negative
- 2 What is the slope of the line containing the points (3,4) and (-6,10)?  
1)  $\frac{1}{2}$  2) 2 3)  $-\frac{2}{3}$  4)  $-\frac{3}{2}$
- 3 What is the slope of the line that passes through the points (-6,1) and (4,-4)?  
1) -2 2) 2 3)  $-\frac{1}{2}$  4)  $\frac{1}{2}$
- 4 What is the slope of the line that passes through the points (2,5) and (7,3)?  
1)  $-\frac{5}{2}$  2)  $-\frac{2}{5}$  3)  $\frac{8}{9}$  4)  $\frac{9}{8}$
- 5 What is the slope of the line passing through the points (-2,4) and (3,6)?  
1)  $-\frac{5}{2}$  2)  $-\frac{2}{5}$  3)  $\frac{2}{5}$  4)  $\frac{5}{2}$
- 6 What is the slope of the line that passes through the points (3,5) and (-2,2)?  
1)  $\frac{1}{5}$  2)  $\frac{3}{5}$  3)  $\frac{5}{3}$  4) 5
- 7 What is the slope of the line that passes through the points (2,-3) and (5,1)?  
1)  $-\frac{2}{3}$  2)  $\frac{2}{3}$  3)  $-\frac{4}{3}$  4)  $\frac{4}{3}$
- 8 What is the slope of the line that passes through the points (-5,4) and (15,-4)?  
1)  $-\frac{2}{5}$  2) 0 3)  $-\frac{5}{2}$  4) undefined
- 9 What is the slope of the line that passes through the points (4,-7) and (9,1)?  
1)  $\frac{5}{8}$  2)  $\frac{8}{5}$  3)  $-\frac{6}{12}$  4)  $-\frac{13}{6}$
- 10 What is the slope of a line that passes through the points (-2,-7) and (-6,-2)?  
1)  $-\frac{4}{5}$  2)  $-\frac{5}{4}$  3)  $\frac{8}{9}$  4)  $\frac{9}{8}$
- 11 What is the slope of a line passing through points (-7,5) and (5,-3)?  
1)  $-\frac{3}{2}$  2)  $-\frac{2}{3}$  3)  $\frac{2}{3}$  4)  $\frac{3}{2}$
- 12 A line with a slope of  $\frac{1}{3}$  passes through the point (3,6). Which point also lies on this line?  
1) (6,3) 2) (7,6) 3) (-3,-3) 4) (-6,3)
- 13 Line segment  $AB$  has a slope of  $\frac{3}{4}$ . If the coordinates of point  $A$  are (2,5), the coordinates of point  $B$  could be  
1) (6,8) 2) (5,9) 3) (-1,1) 4) (6,2)
- 14 What is the slope of the line passing through the points  $A$  and  $B$ , as shown on the graph below?  
  
1) -3 2)  $-\frac{1}{3}$  3) 3 4)  $\frac{1}{3}$

- 15 What is the slope of line  $\ell$  shown in the accompanying diagram?



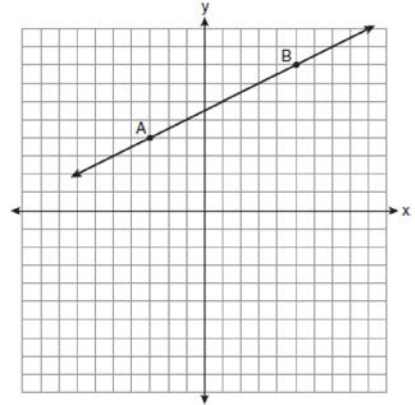
- 1)  $\frac{4}{3}$  2)  $\frac{3}{4}$  3)  $-\frac{3}{4}$  4)  $-\frac{4}{3}$

- 16 What is the slope of line  $\ell$  in the accompanying diagram?



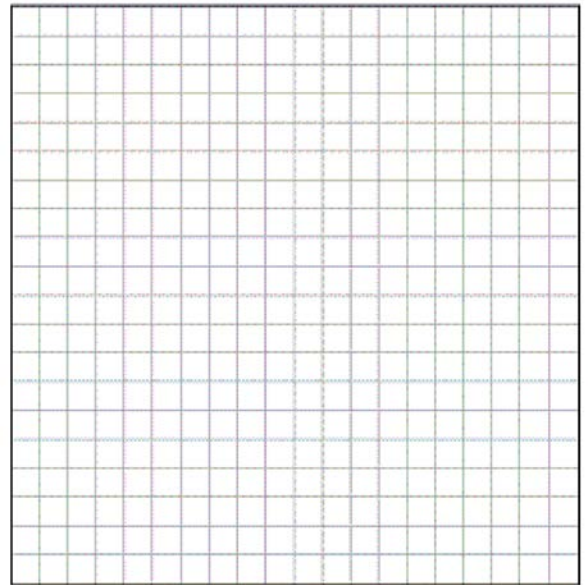
- 1)  $-\frac{3}{2}$  2)  $-\frac{2}{3}$  3)  $\frac{2}{3}$  4)  $\frac{3}{2}$

- 17 In the diagram below, what is the slope of the line passing through points  $A$  and  $B$ ?



- 1)  $-2$  2)  $2$  3)  $-\frac{1}{2}$  4)  $\frac{1}{2}$

- 18 A straight line with slope 5 contains the points  $(1, 2)$  and  $(3, K)$ . Find the value of  $K$ . [The use of the accompanying grid is optional.]



**S.ID.C.7: Slope 1  
Answer Section**

1 ANS: 2 REF: 060618a

2 ANS: 3

$$m = \frac{4-10}{3-(-6)} = -\frac{2}{3}$$

REF: fall0716ia

3 ANS: 3

$$m = \frac{1-(-4)}{-6-4} = -\frac{1}{2}$$

REF: 060820ia

4 ANS: 2

$$m = \frac{5-3}{2-7} = -\frac{2}{5}$$

REF: 010913ia

5 ANS: 3

$$m = \frac{6-4}{3-(-2)} = \frac{2}{5}$$

REF: 061110ia

6 ANS: 2

$$m = \frac{5-2}{3-(-2)} = \frac{3}{5}$$

REF: 061004ia

7 ANS: 4

$$m = \frac{-3-1}{2-5} = \frac{-4}{-3} = \frac{4}{3}$$

REF: 011215ia

8 ANS: 1

$$m = \frac{4-(-4)}{-5-15} = -\frac{2}{5}$$

REF: 080915ia

9 ANS: 2

$$m = \frac{-7-1}{4-9} = \frac{-8}{-5} = \frac{8}{5}$$

REF: 081310ia

10 ANS: 2

$$m = \frac{-7 - (-2)}{-2 - (-6)} = \frac{-5}{4}$$

REF: 061410ia

11 ANS: 2

$$m = \frac{5 - -3}{-7 - 5} = \frac{8}{-12} = -\frac{2}{3}$$

REF: 081411ia

12 ANS: 4

$$\frac{6 - 3}{3 - (-6)} = \frac{3}{9} = \frac{1}{3}$$

REF: 080828a

13 ANS: 1

$$\frac{8 - 5}{6 - 2} = \frac{3}{4}$$

REF: 080728a

14 ANS: 2

$$A(-3, 8) \text{ and } B(3, 6). \quad m = \frac{8 - 6}{-3 - 3} = \frac{2}{-6} = -\frac{1}{3}$$

REF: 081005ia

15 ANS: 1

$$m = \frac{-4 - 0}{0 - 3} = \frac{4}{3}$$

REF: 069918a

16 ANS: 2

$$m = \frac{2 - 0}{0 - 3} = -\frac{2}{3}$$

REF: 010115a

17 ANS: 4

$$A(-3, 4) \text{ and } B(5, 8). \quad m = \frac{4 - 8}{-3 - 5} = \frac{-4}{-8} = \frac{1}{2}$$

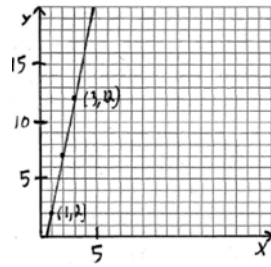
REF: 011007ia

18 ANS:

$$5 = \frac{2 - K}{1 - 3}$$

$$12. -10 = 2 - K .$$

$$K = 12$$



REF: 010024a