

Answer Key

Slippery Slopes

Consider This

If (x_1, y_1) and (x_2, y_2) are two points on a line, the slope of the line, m , is given by the equation:

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Find the slope of the line that passes through the given points.

D $\frac{3}{2}$

E $-\frac{3}{2}$

K -1

I $\frac{27}{4}$

F 1

L Undefined

- 1 (3, 4) and (5, 7)

$$\frac{4-3}{7-5} = \frac{1}{2}$$

- 3 (2, -6) and (-4, 3)

$$\frac{-6-3}{2-(-4)} = \frac{-9}{6} = -\frac{3}{2}$$

- 5 (2, -1) and (-3, 4)

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

- 7 (0, -12) and (4, 15)

$$\frac{-12-15}{0-4} = \frac{-27}{-4} = \frac{27}{4}$$

- 9 (5, 7) and (-2, 0)

$$\frac{7-0}{5-(-2)} = \frac{7}{7} = 1$$

- 11 (5, -2) and (5, 5)

$$\frac{-2-5}{5-5} = \frac{-7}{0}$$

$$\frac{-2-5}{5-5} = \frac{-7}{0}$$

- 2 (4, 11) and (-5, 0)

$$\frac{11-0}{4-(-5)} = \frac{11}{9}$$

- 4 (7, 8) and (-7, 1)

$$\frac{8-1}{7-(-7)} = \frac{7}{14} = \frac{1}{2}$$

- 6 (0, 0) and (3, 15)

$$\frac{0-15}{0-3} = \frac{-15}{-3} = 5$$

- 8 (5, 9) and (14, 9)

$$\frac{9-9}{5-14} = \frac{0}{-9} = 0$$

- 10 (0, -1) and (1, -6)

$$\frac{-1-(-6)}{0-1} = \frac{-1+6}{-1} = \frac{5}{-1} = -5$$

- 12 (-1, -1) and (2, -5)

$$\frac{-1-(-5)}{-1-2} = \frac{-1+5}{-3} = \frac{4}{-3} = -\frac{4}{3}$$

Answer Box

A 5	B $\frac{11}{9}$	C $\frac{1}{2}$	D $\frac{3}{2}$	E $-\frac{3}{2}$	F 1
G $-\frac{4}{3}$	H 0	I $\frac{27}{4}$	J -5	K -1	L Undefined

Versatile Recording Sheet

Name Key

Versatile Title: Slippery Slope

D	$\frac{3}{2}$	5.	K	-1	9.	F	1
B	$\frac{11}{9}$	6.	A	5	10.	J	-5
E	$-\frac{3}{2}$	7.	I	$\frac{27}{4}$	11.	L	NO
C	$\frac{1}{2}$	8.	H	0	12.	G	$-\frac{4}{3}$