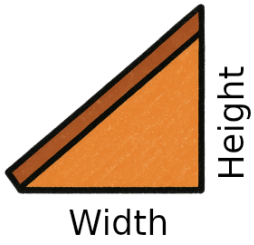
Name



Slope - Intro

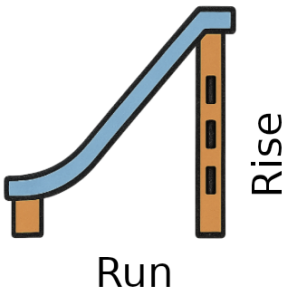
1 The width of this roof is which slope dimension?



A run

B rise

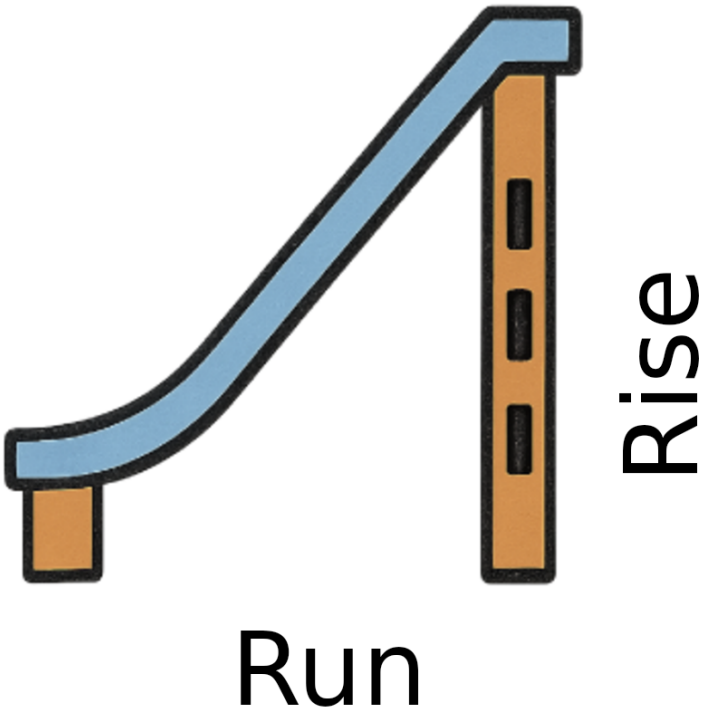
2 Which dimension of this ski jump is the run?



A height

B width

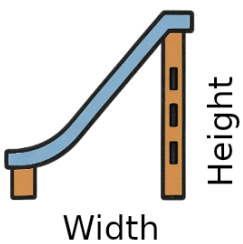
3 How would you calculate the slope of this ski jump (slope is up/across)?



A $\frac{\text{run}}{\text{rise}}$

B $\frac{\text{rise}}{\text{run}}$

4 How would you calculate the slope of this ski jump (slope is up/across)?



A $\frac{\text{width}}{\text{height}}$

B $\frac{\text{height}}{\text{width}}$

5 What slope would this line of X, Y values have?

X	Y
0	4
1	0
2	−4
3	−8
4	−12

A m=4

B m=-4

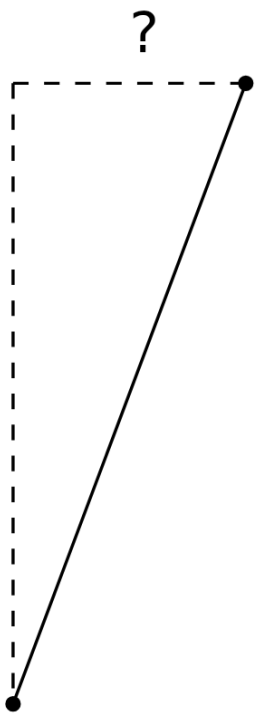
C m=-2

D m=-0.25

Name

Slope - Intro

6 When calculating slope, what is the name of the distance that a line goes horizontally?



A

Road

B

Run

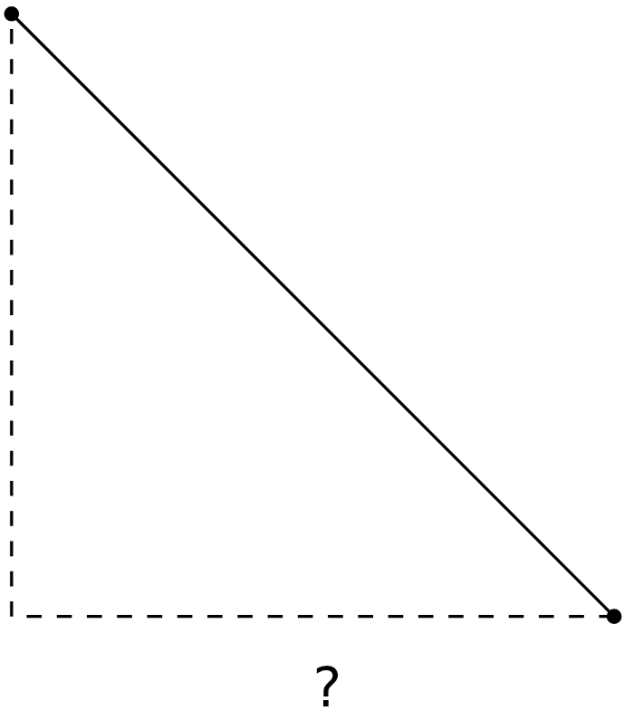
C

Roar

D

Race

7 When calculating slope, what is the name of the distance indicated?



A

Rise

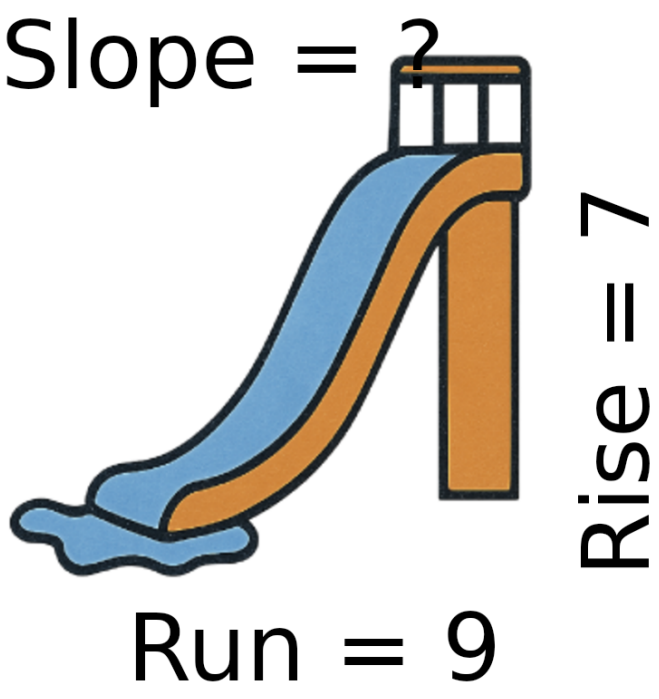
B

Run

Name

Slope - Intro

8 How would you calculate the slope of the slide given that slope is rise/run?



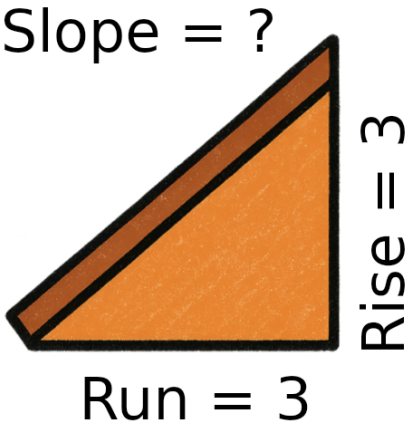
A $7 \cdot 9$

B $\frac{7}{9}$

C $9 \cdot 7$

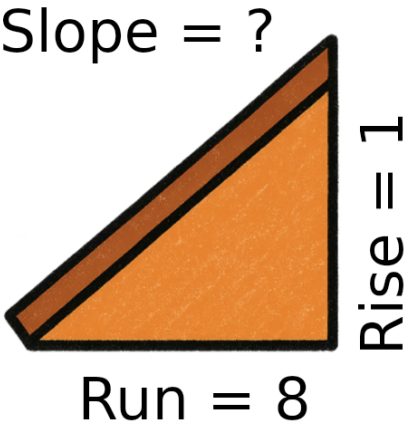
D $-9 \cdot 7$

9 Calculate the slope of the roof given that slope is rise/run



A	B	C
1	1.2	0.4
D	E	F
-0.2	-1.5	0.25

10 Calculate the slope of the roof given that slope is rise/run



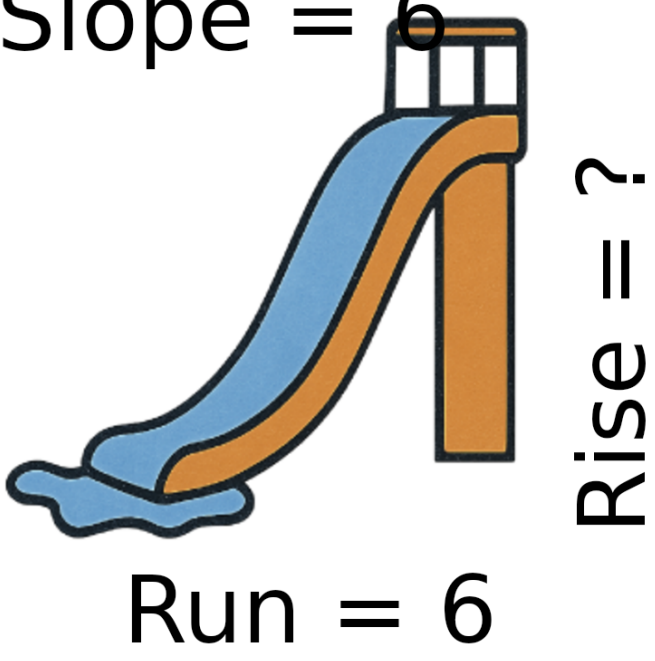
A	B	C
0.13	-0.08	8
D	E	F
0.3	-2.25	0.08

Name



Slope - Intro

11 How would you calculate the rise of the slide given that slope is rise/run?



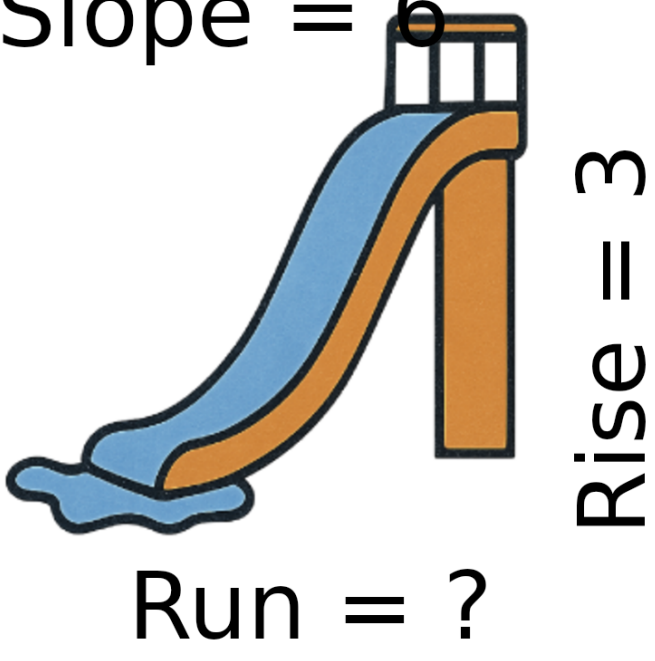
A $\dfrac{6+6}{6-6}$

B $\dfrac{6}{-6}$

C $6 \cdot 6$

D $6-6$

12 How would you calculate the run of the slide given that slope is rise/run?



A $\dfrac{3+6}{3-6}$

B $6 \cdot 3$

C $\dfrac{3}{6}$

D $-6 \cdot 3$

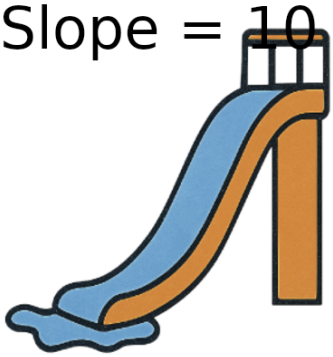
Name



Slope - Intro

13 Calculate the rise (height) of the slide given that slope is rise/run

Slope = 10



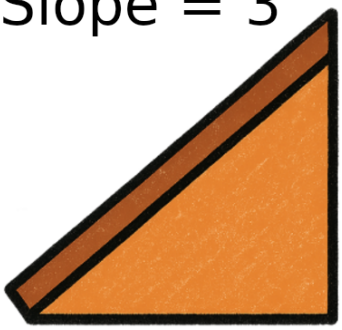
Rise = ?

Run = 9

A	B	C
90	0.9	36
D	E	F
126	99	27

14 Calculate the run (width) of the roof given that slope is rise/run

Slope = 3



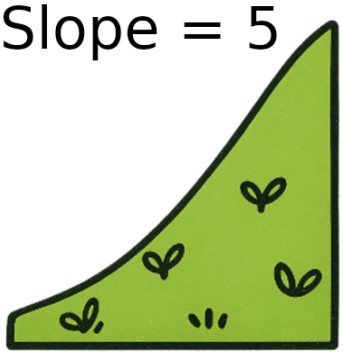
Rise = 3

Run = ?

A	B	C
1.4	0.3	1.6
D	E	F
1	1.1	0.1

15 Calculate the rise (height) of the hill given that slope is rise/run

Slope = 5



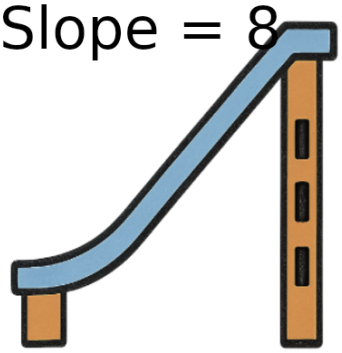
Rise = ?

Run = 1

A	B	C
10	9	5
D	E	F
0.2	4	6.5

16 Calculate the run (width) of the ski jump given that slope is rise/run

Slope = 8



Rise = 7

Run = ?

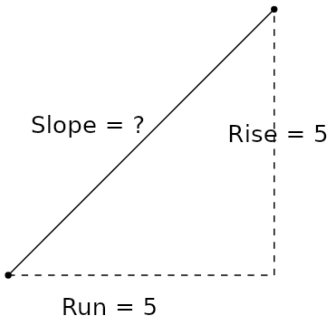
A	B	C
1.05	0.35	1.14
D	E	F
0.18	1.75	0.88

Name



Slope - Intro

17 How would you calculate the slope of the line given that slope is rise/run?



A $\frac{5}{5}$

B $\frac{-5}{5}$

C $\frac{5+5}{5-5}$

D $5 \cdot 5$

E $-5 \cdot 5$

18 What slope would this line of X, Y values have?

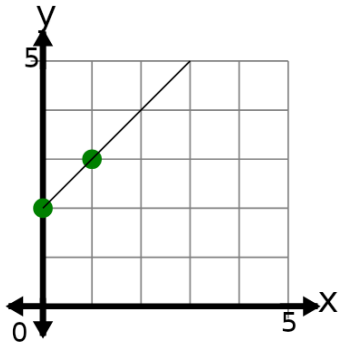
X	Y
0	3
1	2
2	1
3	0
4	−1

A $m = 1$

B $m = \frac{1}{2}$

C $m = -1$

19 What chart of X, Y values matches this graph?



A

X	Y
0	2
1	1
2	0
3	−1
4	−2

B

X	Y
0	2
1	3
2	4
3	5
4	6

Name

Slope - Intro

20 What chart of X, Y values would have this slope?

$$m=0.25$$

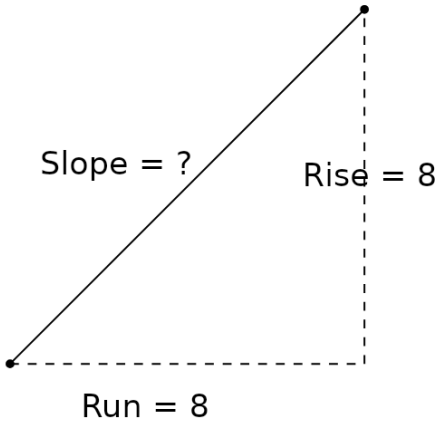
A

X	Y
0	3
1	7
2	11
3	15
4	19

B

X	Y
0	3
1	3.25
2	3.5
3	3.75
4	4

21 Calculate the slope of the line given that slope is rise/run



A	B	C
1	0	0.25
D	E	F
-1.75	1.75	1.2

22 What chart of X, Y values would have this slope?

$$m=-\frac{1}{3}$$

A

X	Y
0	1.33
1	−1.67
2	−4.67
3	−7.67
4	−10.67

B

X	Y
0	1.33
1	1
2	0.67
3	0.33
4	0

23 What line equation would create this set of X, Y values?

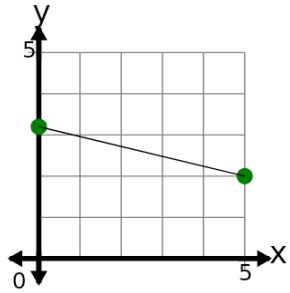
X	Y
0	0
1	0.25
2	0.5
3	0.75
4	1

A $y=\frac{1}{4}x$

B $y=-4x$

C $y=\frac{4}{2}x$

24 What slope does the line on this graph have?



A m=-5

B m=-0.2

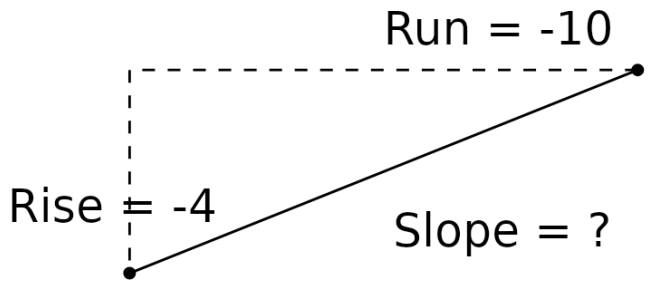
C m=-0.1

D m=0.2

Name

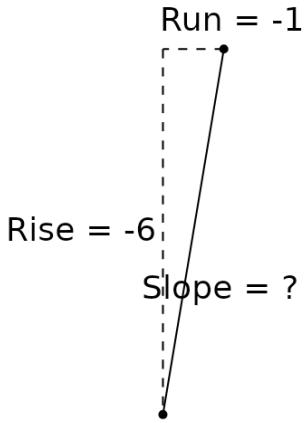
Slope - Intro

25 How would you calculate the slope of the line given that slope is rise/run?



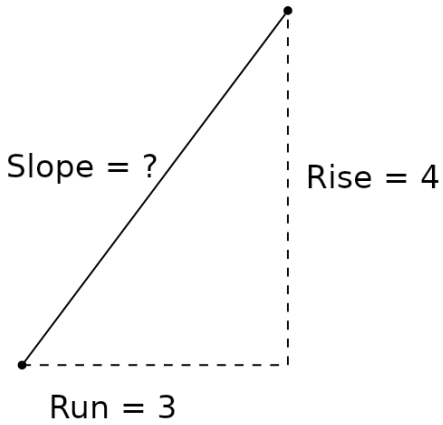
A $\frac{-4}{-10}$	B $-10 \cdot -4$
C $-4 \cdot -10$	D $\frac{-10}{-4+-10}$
E $10 \cdot -4$	

26 Calculate the slope of the line given that slope is rise/run



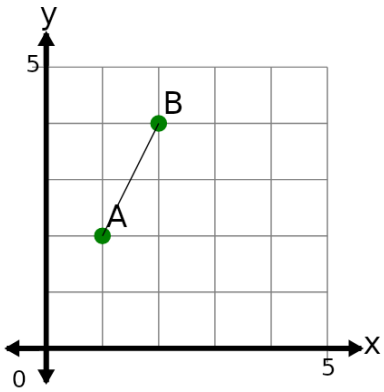
A 6	B 3.6	C -0.75
D -0.5	E 1.2	F 0.17

27 Calculate the slope of the line given that slope is rise/run



A -0.75	B 2.4	C 0.53
D 0.75	E 0.5	F 1.33

28 Find the slope of the line between Point A and Point B given that Y increases by 2 and X increases by 1

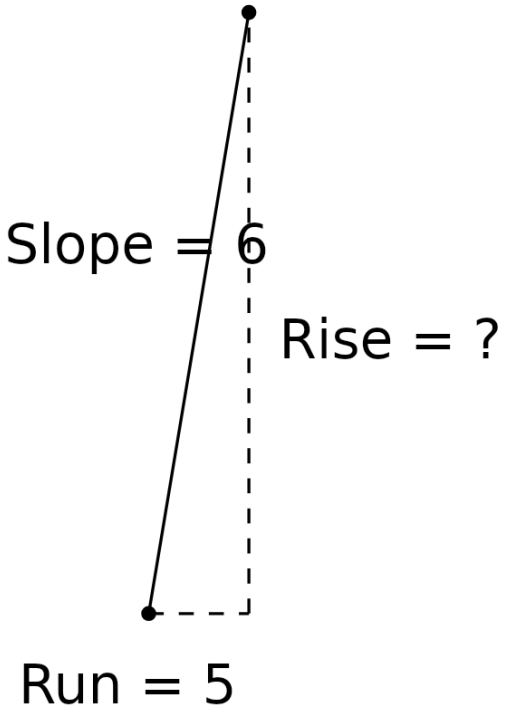


A 0.75	B 0.5	C -0.4
D -1.25	E -0.5	F 2

Name

Slope - Intro

29 How would you calculate the rise of the line given that slope is rise/run?



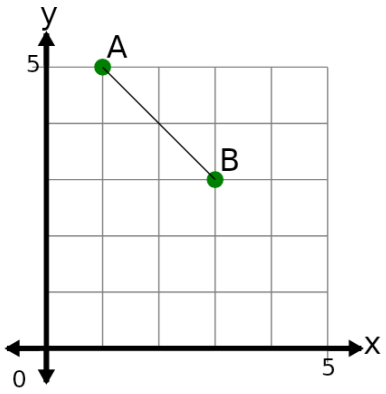
A $\frac{-6}{5}$

B $\frac{5}{-6}$

C $6 \cdot 5$

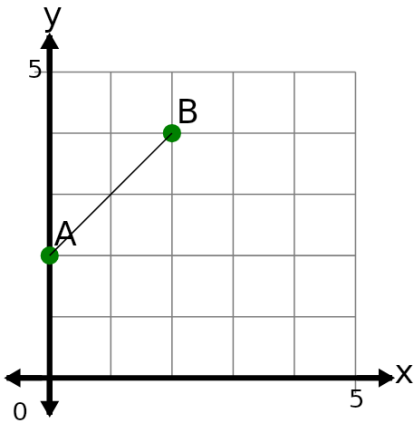
D $\frac{6+5}{6-5}$

30 Find the slope of the line between Point A and Point B given that Y decreases by 2 and X increases by 2



A	B	C
-0.4	-1.8	2.5
D	E	F
-3	-1	-1.25

31 Find the slope of the line between Point A and Point B

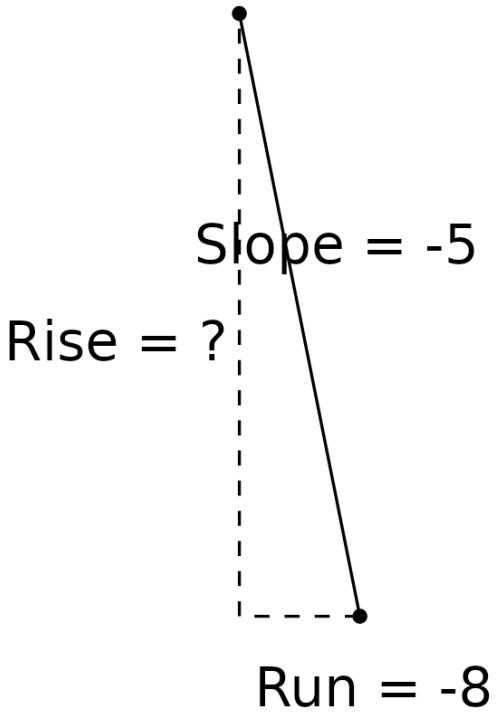


A	B	C
0	1	0.8
D	E	F
-1	1.75	-2

Name

Slope - Intro

32 How would you calculate the rise of the line given that slope is rise/run?



A

$$\frac{-8}{-5}$$

B

$$-5 \cdot -8$$

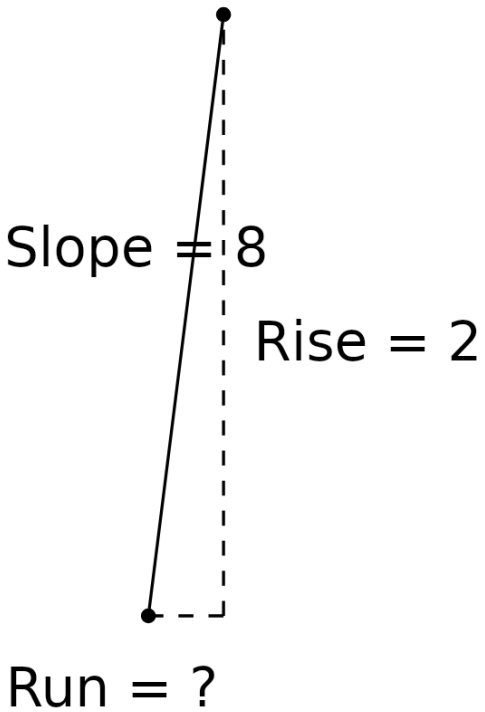
C

$$\frac{-5 + -8}{-5 - -8}$$

D

$$-8 - -5$$

33 How would you calculate the run of the line given that slope is rise/run?



A

$$\frac{-8}{2}$$

B

$$8 \cdot 2$$

C

$$\frac{2}{8}$$

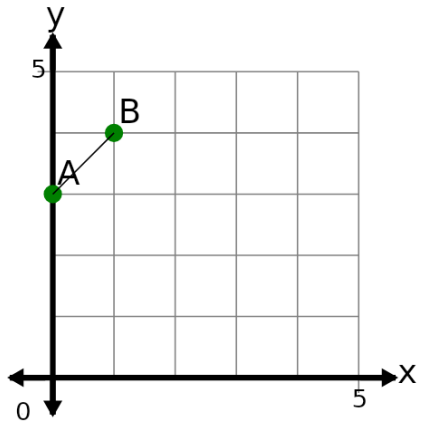
D

$$-8 \cdot 2$$

Name

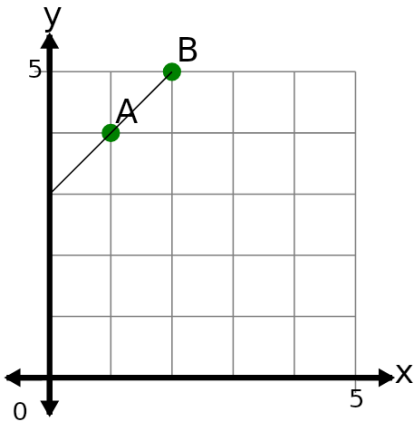
Slope - Intro

34 Find the slope of the line between Point A and Point B



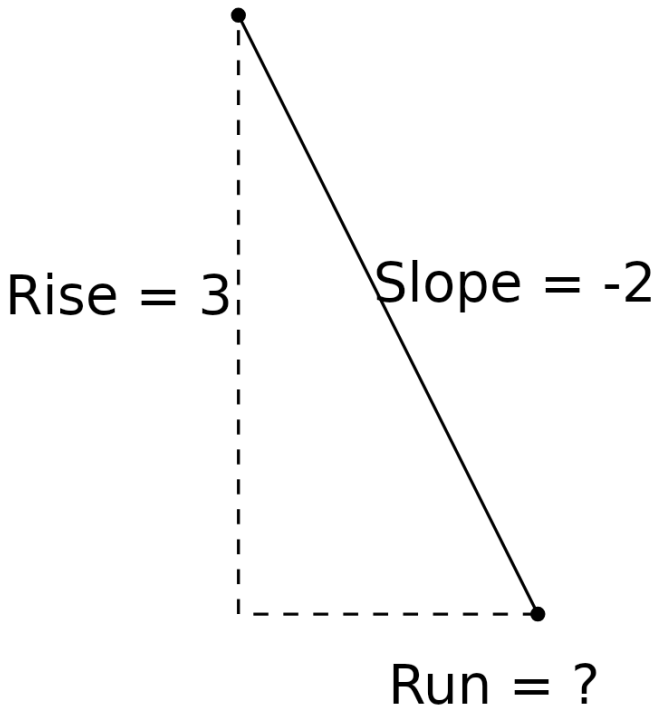
A	B	C
1	-1	2.4
D	E	F
1.4	-0.8	0

35 Find the slope of the line between Point A and Point B



A	B	C
1	2.25	2.5
D	E	F
0.4	2.6	0.75

36 How would you calculate the run of the line given that slope is rise/run?



A

$$-2 \cdot 3$$

B

$$2 \cdot 3$$

C

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

D

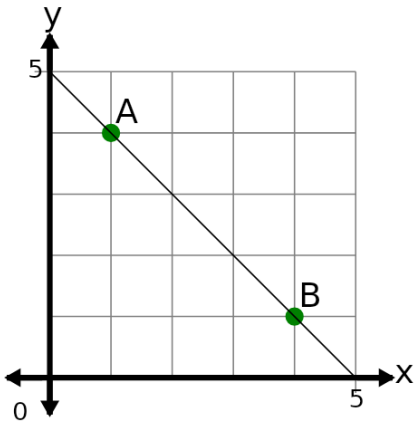
$$\frac{3}{-2}$$

Name



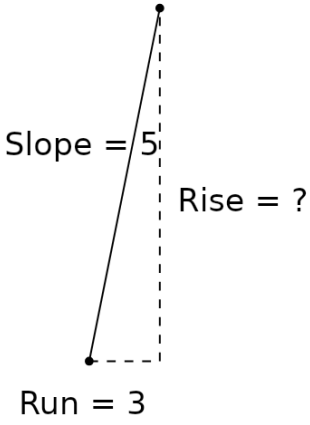
Slope - Intro

37 Find the slope of the line between Point A and Point B



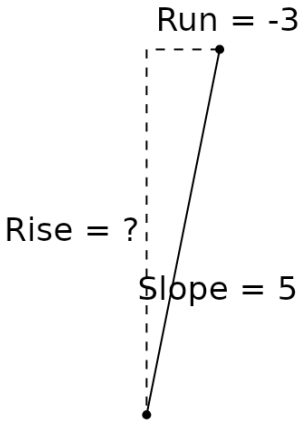
A	B	C
0	-1.4	-1.2
D	E	F
-1	-2.5	-1.25

38 Calculate the rise (how far up) of the line given that slope is rise/run



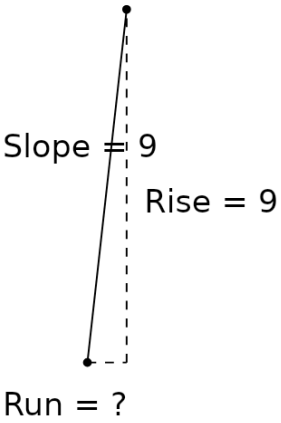
A	B	C
1.5	16.5	15
D	E	F
25.5	0.6	19.5

39 Calculate the rise (how far up) of the line given that slope is rise/run



A	B	C
-15	-9	-27
D	E	F
0	-0.6	-30

40 Calculate the run (how far across) of the line given that slope is rise/run



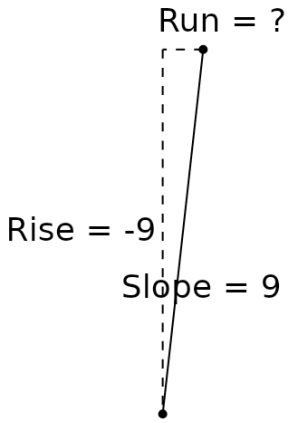
A	B	C
1.6	1.8	1
D	E	F
1.1	0.3	1.4

Name



Slope - Intro

41 Calculate the run (how far across) of the line given that slope is rise/run

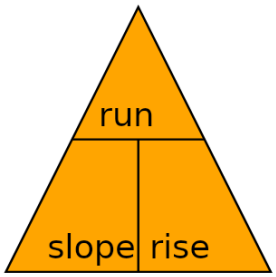


A	B	C
-0.3	-0.8	-0.5
D	E	F
-1	-1.1	-0.6

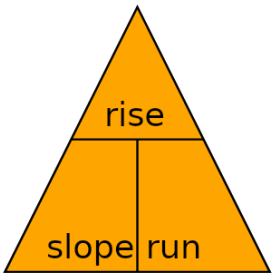
42 What fact family triangle would give this slope fact?

$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

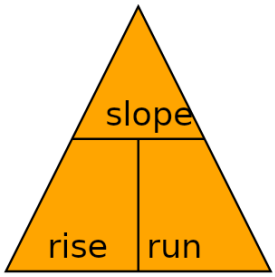
A



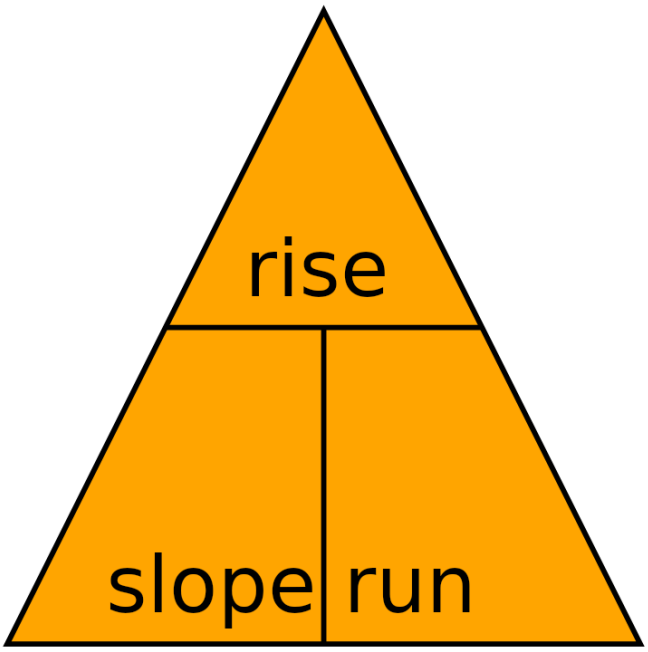
B



C



43 Which slope fact comes from this fact family



A

$$\text{run} = \frac{\text{slope}}{\text{rise}}$$

B

$$\text{rise} = \frac{\text{run}}{\text{slope}}$$

C

$$\text{run} = \frac{\text{rise}}{\text{slope}}$$

Name



Slope - Intro

44 What line equation would create this set of X, Y values?

X	Y
0	4
1	3
2	2
3	1
4	0

A

$$y = \frac{1}{2}x + 4$$

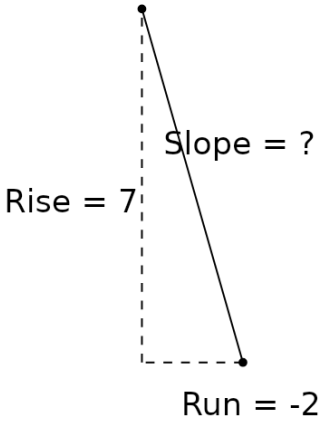
B

$$y = -1x + 4$$

C

$$y = 1x + 4$$

45 Calculate the slope of the line given that slope is rise/run

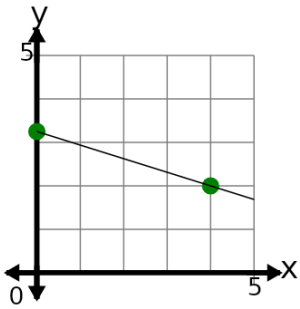


A	B	C
-4.2	-1.5	-3.5
D	E	F
1.25	-0.29	-2.1

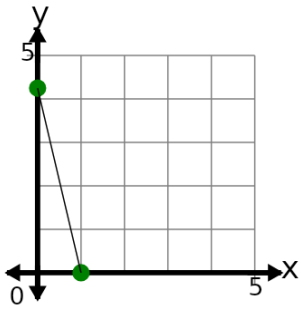
46 What graph shows this set of X, Y values?

X	Y
0	3.25
1	3
2	2.75
3	2.5
4	2.25

A



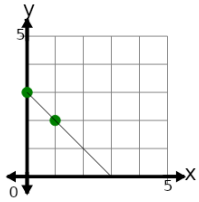
B



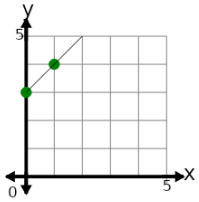
47 What line has this slope?

m=1

A



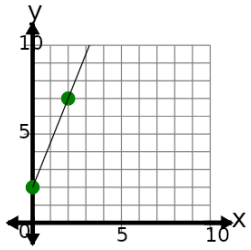
B



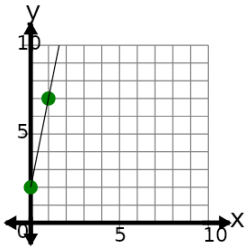
48 What line has this slope?

$$m = 5$$

A



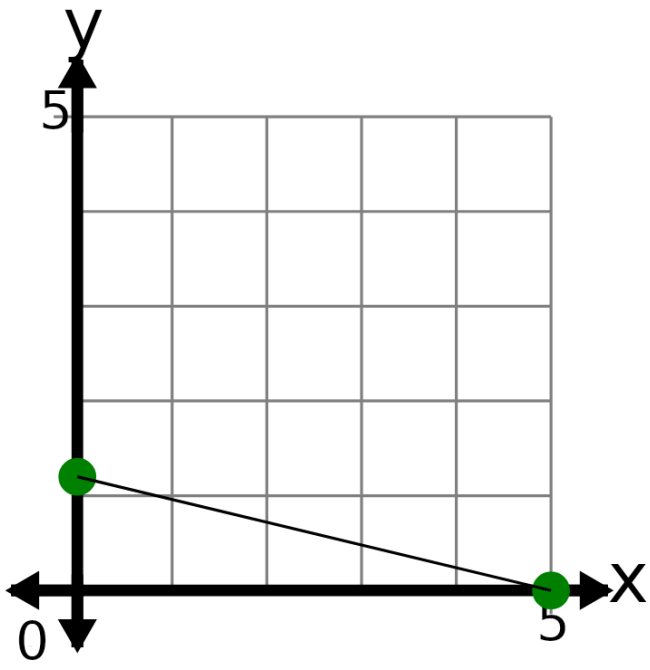
B



Name

Slope - Intro

49 What slope does the line on this graph have?



A $m = \frac{5}{2}$

B $m = -5$

C $m = -\frac{1}{5}$

D $m = \frac{1}{5}$

50 What line equation would have this slope?

m=1

A $y = -1x$

B $y = \frac{1}{2}x$

C $y = 1x$

51 What line equation would have this slope?

m=0.33

A $y = -\frac{3}{2}x + 3$

B $y = 3x + 3$

C $y = \frac{1}{3}x + 3$

D $y = -\frac{1}{3}x + 3$

52 What line equation would have this slope?

$m = 4$

A $y = \frac{4}{2}x$

B $y = 4x$

C $y = \frac{1}{4}x$

D $y = -4x$

Name



Slope - Intro

53 What line equation would have this slope?

$$m = -4$$

A
$y = -4x + 4$

B
$y = 4x + 4$

C
$y = -\frac{4}{2}x + 4$

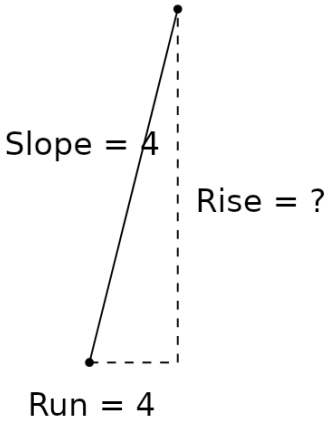
D
$y = -\frac{1}{4}x + 4$

54 What slope would this line equation have?

$$y = 5x$$

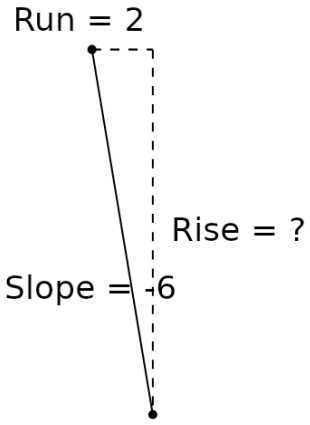
A	B
m=0.2	m=2.5
C	D
m=-5	m=5

55 Calculate the rise (how far up) of the line given that slope is rise/run



A	B	C
20.8	1	16
D	E	F
11.2	0	27.2

56 Calculate the rise (how far up) of the line given that slope is rise/run



A	B	C
-7.2	-12	-1.2
D	E	F
-21.6	-2.4	-19.2