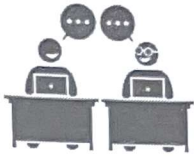


Name:

ANSWERS!

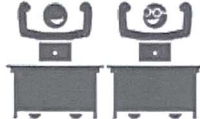
Class:



Communication



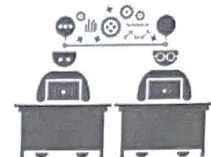
Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

Write the $y = mx + b$ equation for the linear relationship represented in the table.

x	0	1	2	3	4
y	-8	-5	-2	1	4

+1 +1 +1
+3 +3 +3

$$y = 3x - 8$$

Question 02

Write the $y = mx + b$ equation for the linear relationship represented in the table.

x	0	1	2	3	4
y	-4	5	14	23	32

+1 +1 +1
+9 +9 +9

$$y = 9x - 4$$

Question 03

Write the $y = mx + b$ equation for the linear relationship represented in the table.

x	0	1	2	3	4
y	5	8	11	14	17

+1 +1 +1
+3 +3 +3

$$y = 3x + 5$$

Question 04

Write the $y = mx + b$ equation for the linear relationship represented in the table.

x	0		2	+2	4
y	4		18		32

$$\frac{14}{2} = 7$$

+14

$$y = 7x + 4$$

Question 05

Write the $y = mx + b$ equation for the linear relationship represented in the table.

x	0		2	+2	4
y	7		11		15

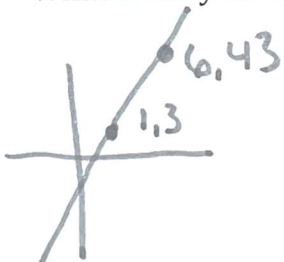
$$\frac{4}{2} = 2$$

+4

$$y = 2x + 7$$

BONUS 01

A line includes coordinates (1, 3) and (6, 43).
What is the y-intercept?



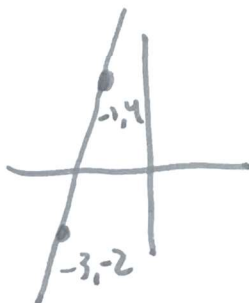
$$\frac{\text{Rise } 40}{\text{Run } 5} = 8$$

$$\begin{aligned} y &= 8x + b \\ 3 &= 8(1) + b \\ 3 &= 8 + b \\ b &= -5 \end{aligned}$$

$$-5$$

BONUS 02

A line includes coordinates (-3, -2) and (-1, 4).
What is the y-intercept?



$$\frac{\text{Rise } 6}{\text{Run } 2} = 3$$

$$\begin{aligned} y &= 3x + b \\ 4 &= 3(-1) + b \\ 4 &= -3 + b \\ b &= 7 \end{aligned}$$

$$7$$