

LINEAR RELATIONSHIPS SUDOKU

	R	S	T	U	V	W	X	Y	Z
A									
B									
C									
D									
E									
F									
G									
H									
I									

AT: slope of the line through (300,412) and (420,652)

AV: y-intercept of $7x - 3y = -24$

AY: x-intercept of $\frac{x}{4} - \frac{y}{11} = 1$

AZ: the next value of the linear equation in the table below:

x	y
-2	-6
0	-2
2	2
4	

BS: slope of $\frac{x}{-2} + \frac{y}{8} = 1$

BW: If a line has a slope of 3 and contains the points (3,1) and (5,y), then what is the value of y?

CT: slope of the line through $(-\frac{2}{5}, \frac{1}{4})$ and $(\frac{7}{10}, \frac{71}{20})$

CW: y-intercept of $y = 5$

CZ: slope of $y = 8(x + 1)$

DU: Which equation below is a linear relationship?

#1: $y = \frac{1}{2x} + 3$

#2: $y = 5 - 2x + 3x^2$

#3: $y + 4 = \frac{2}{5}(x - 1)$

#4: $xy = 1$

DW: slope of the line parallel to $y = 6x - 8$

DX: slope of the line perpendicular to $y = -\frac{1}{2}x$

ER: the x-value on the line $y = 2x - 4$ when $y = 10$

EV: 2 (free space)

EZ: slope of the line parallel to $y = x$

FT: slope of the line perpendicular to a line with slope of $-\frac{1}{5}$

FU: maximum number of y-intercepts that a line can have

FW: x-intercept of $3x - 3y = 24$

GR: Which table below is a linear relationship?

#1:

x	1	2	5
y	10	4	-2

#2:

x	0	1	2
y	-1	1.5	4

GU: the y-value on the line $y = 2x - 4$ when $x = 6$

GX: the number of quadrants in the Cartesian (rectangular) coordinate system

HU: slope of the line through (0,0) and (7,49)

HY: slope of the line through (-9,-81) and (0,0)

IR: y-intercept of $y + 6 = 5(x + 2)$

IS: y-intercept of the line with slope of 2 and through the point (14,3)

IV: x-intercept of $y = 2x - 12$

IX: slope of the line perpendicular to $x + y = 8$

Name: _____ Date: _____ Color: _____

Finding slope using a tables of values

Write the equation for the following table of values.

1. _____

X	0	1	2	3
y	3	5	7	9

2. _____

X	0	1	2	3
y	1	3	5	7

3. _____

X	0	2	4	6
y	9	4	-1	-6

4. _____

X	-6	-2	2	6
y	-2	-1	0	1

5. _____

X	y
1	12
3	9
5	6
7	3