

Remember ME

Let's look at it again.

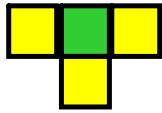


Figure 1

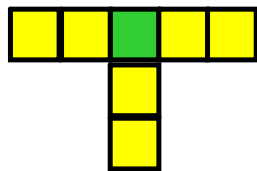


Figure 2

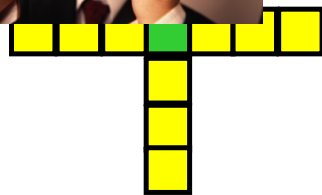
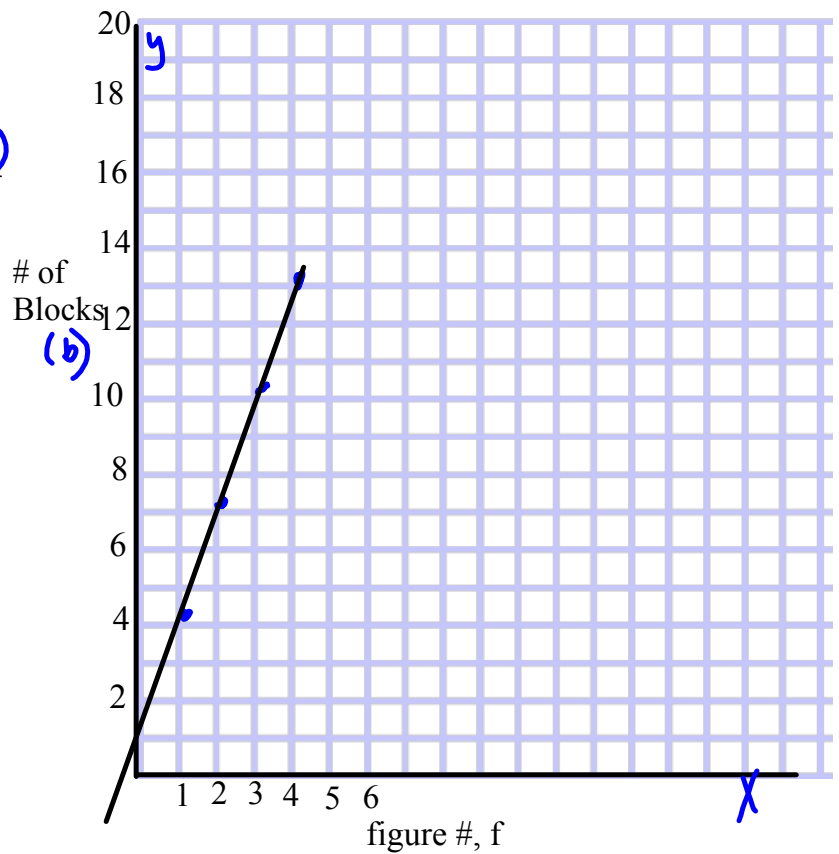


Figure 3

Figure # (<i>f</i>)	# of Blocks (<i>b</i>)	point (<i>x</i> , <i>y</i>)
1	4	(1, 4)
2	7	(2, 7)
3	10	(3, 10)
4	13	(4, 13)
5	16	
6	19	



- Describe the relationship between figure number and number of blocks. *As figure # increases by one the number of blocks increases by 3.*

Linear Relation

- is when the graph is a straight line
- a constant change in 'x' causes a constant change in 'y'



Table of Values

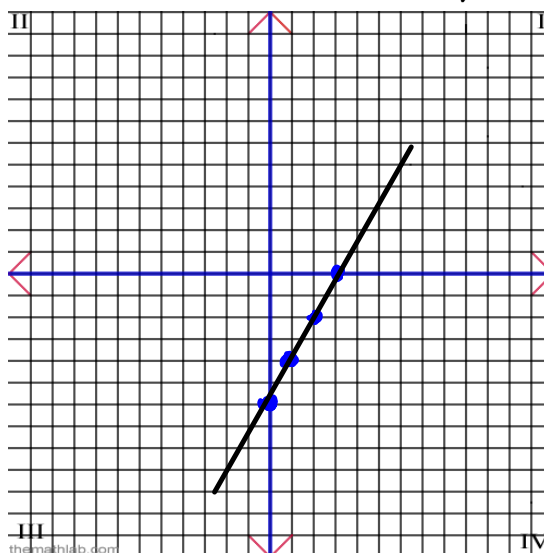
x	y
0	-6
1	-4
2	-2
3	0

Handwritten notes: $y+2$ (written three times) with arrows indicating the change in y for each step in x.

A) Describe the relation.

As x increases by 1, y increases by 2

B) Is it linear? *yes*



Without graphing is the relationship linear?

A)

x	y
1	2
2	4
3	8
4	16

$\rightarrow +2$
 $\rightarrow +4$
 $\rightarrow 8$

No

B)

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

$\rightarrow -1$
 $\rightarrow -1$
 $\rightarrow -1$

Yes

Complete the table for $y=3x + 1$

Show 2 calculations

x	y
1	4
2	7
3	10
4	13

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

$$\begin{aligned}x &= 2 \\ y &= 3x + 1 \\ y &= 3(2) + 1 \\ y &= 6 + 1 \\ y &= 7\end{aligned}$$

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#4 [a-e] yes or no if the graph shows a linear relationship

#5 Copy the table of values...show the common difference...decide if linear if yes describe the relationship

#7 Copy the table...show **at least two calculations** then complete the table of values.