

Lisa charges \$12 an hour to babysit.

Write a rule (equation) to represent her total income.

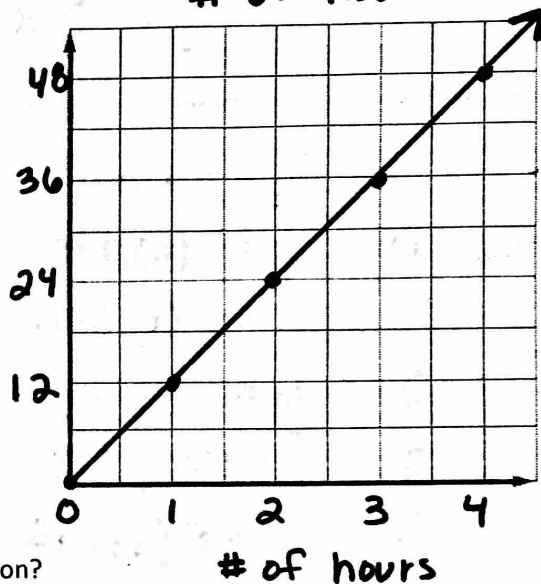
$$y = 12x$$

Make a table and graph for this situation

x	$y = 12(x)$	y
0	$y = 12(0)$	0
1	$y = 12(1)$	12
2	$y = 12(2)$	24
3	$y = 12(3)$	36
4	$y = 12(4)$	48

total income

total income vs.  
# of hours



What values of the domain and range make sense for this situation?

Domain: 0 and up

Range: 0 and up

What is the independent and dependent variables?

indep  $\rightarrow$  # of hours

dep  $\rightarrow$  total income

How much money will he make if she babysits for 7 hours?

$$y = 12(7) = \$84$$

Is this a linear relationship?

Is this a function?

Yes

Yes

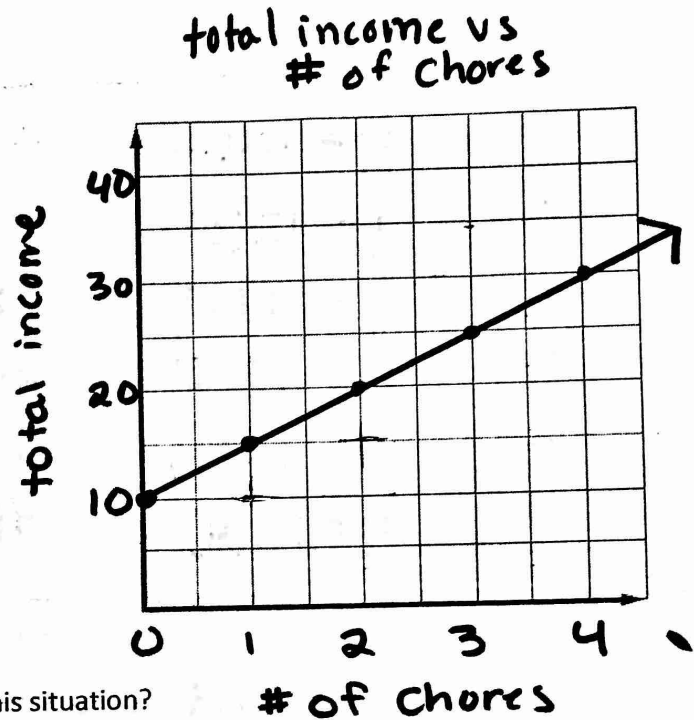
Donna started with \$10 in her piggy bank. She earned \$5 per chore she completes around the house.

Write a rule (equation) to represent her total income.

$$y = 5x + 10$$

Make a table and graph for this situation

x	$y = 5x + 10$	y
0	$y = 5(0) + 10$	10
1	$y = 5(1) + 10$	15
2	$y = 5(2) + 10$	20
3	$y = 5(3) + 10$	25
4	$y = 5(4) + 10$	30



What values of the domain and range make sense for this situation?

Domain: 0 and up

Range: 10 and up

What is the independent and dependent variables?

ind. # of chores

dep. total income

How much money will Jane have after doing 5 chores?

$$y = 5(5) + 10 = \$35$$

Is this a linear relationship?

Yes

Is this a function?

Yes