Our books way of saying:

Writing a Function Rule: $\longrightarrow$ Writing an Equation

Write a function rule for this situation. Define your variables.

1. The amount of money you earn is a function of the number of hours you work. Your job pays you $8.50 per hour.

EQ: $E = 8.50h$

Variables: $E = \$ \text{ earned}$
$h = \# \text{ hrs}$

2. The perimeter of a Square is a function of the length of each side.

EQ:

$P = 4L$

Variables:

$P = \text{perimeter}$
$L = \text{Length of each side}$

3. The amount of money you must pay a repair shop is a function of the cost of the parts and the number of hours the mechanic takes to finish the job. The parts for your repair cost $72 and the mechanic charges $25 per hour.

EQ:

$A = 72 + 25h$

Variables:

A = amount of the repair bill

h = # hrs worked on repair

Write a function rule to model the data in each table.

1.

X	Y
2	5
4	7
6	9
8	11

$Y = X + 3$

2.

X	Y
-4	-10
-2	-5
2	5
4	10

$Y = 2.5X$

Write a function rule to model the data in each table.

3.

X	Y
-2	-9
-1	-8
0	-7
1	-6

$Y = X - 7$

4.

X	Y
-24	6
-16	4
0	0
8	-2
12	-3

$Y = \dfrac{X}{-4}$