Model each situation with a function rule. Define your variables.

1. The number of shots Susan makes is a function of how many shots she takes. She makes 70% of her shots.

EQ: Variables:

2. Yolanda's monthly paycheck includes her $1200 salary plus 5% of her total sales for that month.

EQ: Variables:

3. Hussein's business mails out coupons to houses in the city. It costs him $.39 for each envelope mailed.

EQ: Variables:

4. Write a function rule for the data in each table.

a)

X	Y
−5	18
−2	7.2
0	0
7	−25.2
11	−39.6

$y =$

b)

X	Y
−3	1.5
−1	3.5
2	6.5
5	9.5
7	11.5

$y =$

Model each situation with a function rule. Define your variables.

1. The number of shots Susan makes is a function of how many shots she takes. She makes 70% of her shots.

EQ: $M = .70\,T$

Variables: $T = \#\text{ shots taken}$
$m = \#\text{ shots made}$

2. Yolanda's monthly paycheck includes her $1200 salary plus 5% of her total sales for that month.

EQ: $P = 1200 + (.05)(S)$

Variables: $P = \text{monthly pay}$
$S = \text{Total monthly sales}$

3. Hussein's business mails out coupons to houses in the city. It costs him $.39 for each envelope mailed.

EQ: $C = .39\,E$

Variables: $C = \text{TOTAL COST of mailing}$
$E = \#\text{ envelopes}$

4. Write a function rule for the data in each table.

a)

X	Y
–5	18
–2	7.2
0	0
7	–25.2
11	–39.6

$y =$

$y = -3.6\,x$

b)

X	Y
–3	1.5
–1	3.5
2	6.5
5	9.5
7	11.5

$y =$

$y = x + 4.5$

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