

Name: _____
Date: _____

1. Line 1 has an x-intercept of 24 and a y-intercept of 8.
What is the slope of line 1?

A) $-\frac{1}{3}$ C) -3
B) 3 D) $\frac{1}{3}$

2. What is the x-intercept for the rule defined by: $6x + 4y - 48 = 0$.

A) -12 C) 8
B) -8 D) 12

3. Line 1 is defined by the equation $2x + 4y - 48 = 0$.
Which of the following slopes is perpendicular to line 1?

A) $-\frac{1}{2}$ C) -2
B) 2 D) $\frac{1}{2}$

4. What is the equation of a line that is *parallel* to $2y + 7x + 14 = 0$, but that passes through B (8, -22)?

Rule: $y =$ _____

5. What is the equation of a line travelling *perpendicular* to $4y - 10x + 14 = 0$, but that passes through C (36, 8)?

Rule: $y =$ _____

6. Chris wins a math competition and collects lots of money, which he then deposits at the bank.

He spends sixty dollars a day.

After 14 days, he has \$960 left.

- a) What is the **equation** that defines how much money Chris has left?
- b) How much money does Chris start with?
- c) How many days will it take for Chris to run out of money?

a) **Rule:** _____

b) **Chris starts off with \$:** _____

c) **Chris will run out of money after** _____ **days**

7. Laura sells clothes at a store in Fairview.

Her boss pays her a small salary just to come in, but she makes most of her money earning a percentage of her sales (commission).

If she sells **850 \$** worth of clothes, she makes **133.00 \$** for the day.

If she sells **1480 \$** worth of clothes, she makes **183.40 \$** for the day

- a) How much money does Laura get initially, just to come in to work?**
- b) What percentage of her sales does Laura get to keep?**
- c) If she wants to make 250\$, how much clothing (dollar value) does Laura have to sell?**

a) Answer: _____

b) Answer: _____

c) Answer: _____