

**Do Now**

You receive \$250 for a Christmas gift. You decide to save \$200 in your savings account. Each week, you add \$12 to the account.

- A. Find an equation for the amount you have in your account after a certain number of weeks.

$$\text{Let } x = \# \text{ of weeks} \quad m = 12 \\ y = \text{total amount} \quad b = 200 \quad y = 12x + 200$$

- B. Use your equation to find out when you will have \$308 in your account.

$\rightarrow y\text{-value}$

$$y = 12x + 200 \\ 308 = 12x + 200 \\ -200 \quad -200 \\ \hline 108 = 12x \\ \frac{108}{12} \quad \frac{12}{12} \\ 9 = x$$

9 Weeks

Dec 20-6:10 PM

**Homework Answers**

- 19) A) Let
- $x = \# \text{ of min}$

 $y = \text{height}$ 

1) A    2) C    3) D    4) B    5) A

$y = -75x + 1400$

6) B    7) D    8) C    9) A

B)  $18\frac{2}{3}\text{ min}$

10)  $y = \frac{2}{3}x + 3$  17) A) Let  $x = \# \text{ of weeks}$  20) A) Let  $x = \# \text{ of hours}$

$y = \text{total weight}$

 $y = \text{total cost}$ 

11)  $y = \frac{1}{2}x$

$y = -3x + 257$

$y = 7.50x + 25$

12)  $y = -\frac{2}{3}x + 7$  B) 221 pounds

B) 6 hours

13)  $x = -1$

18) A) Let  $x = \# \text{ of hours}$

21) A) Let  $x = \# \text{ of years}$

14)  $y = 5$

$y = \text{total cost}$

 $y = \text{Total students}$ 

15)  $y = \frac{1}{4}x$

$y = 35x + 5$

$y = 35x + 1200$

B) 3.5 hours

B) 16 years (2016)

16)  $x = 2$

22) A) Let  $x = \# \text{ of months}$

$y = 475x + 125$

$y = \text{total cost}$

B) 10 months

Nov 20-11:07 AM

## Unit 4 Writing Linear Equations Test Topics

- Writing Linear Functions when given y - intercept & slope
- Writing Linear Functions when given a graph
- Writing Linear Functions when given slope and a point
- Writing Linear Functions when given two points
- Writing Linear Functions when given a table of values
- Writing/Evaluating/Graphing Linear Functions from word problems

Dec 20-6:52 PM