Name:

Date: Period:

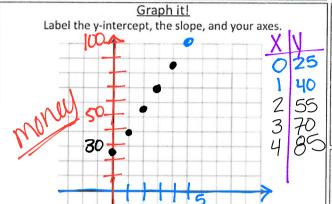
Graphing Linear Equations Word Problems

1. Georgie joins a gym. She pays \$25 to signup and then \$15 each month.

Linear

Create the Equation:

=15x + 25



Discrete OR Continuous? one-a-month

Domain:

months [0,1,2,3...@)

Read the Graph: How much will Georgie have paid if she used the gym for 5 months?

Create the Equation:

2. Edwin has \$50.00 in his bank. He starts spending \$2.50 each week on snacks at lunch.

months

-2.50x + 50

X=20 Weeks) Graph it! Label the y-intercept, the slope, and your axes. 50 Z

Discrete or Continuous?

Domain: Wels 0,20

Read the Graph: After how many weeks will Edwin run out of money? How is this shown on the graph?

20 weeks >

X-intercept

Name:	Date:	Period:
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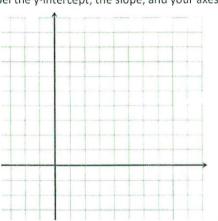
Graphing Linear Equations Word Problems

3. Jesus wants to start saving for college. His parents started an account for him that currently holds \$325. Jesus adds \$50 each month.

Create the Equation:



Label the y-intercept, the slope, and your axes.



, Discrete or continuous?

Domoun:

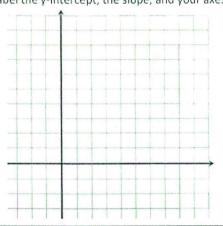
Read the Graph: Determine how much money Jesus will have if he continues this pattern for a year?

4. Victoria moved into a new apartment and called to install her cable. They told her they charged \$45 to install the cable box and \$60 each month for the service.

Create the Equation:

Graph it!

Label the y-intercept, the slope, and your axes.



. Discrete or Continuous?.

Domain:

Read the Graph: Why should you only draw this graph in the first quadrant? (ONLY POSITIVE VOLUES)

_____ Date: _____ Period: Name:

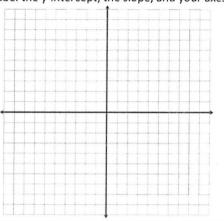
Graphing Linear Equations Word Problems

5. Jennifer spent \$150 at a craft fair to rent a booth. She sells knit blankets for \$25 each.

Create the Equation:

Graph it!

Label the y-intercept, the slope, and your axes.



Discrete of Continuos?

Read the Graph: How many blankets does Jennifer need to sell to break even?

6. Lin wants to empty her hot tub to clean it. She has a 300 gallon hot tub and empties it at a rate of 20 gallons each minute.

Create the Equation:

4 = -20x + 300

Graph it! Label the y-intercept, the slope, and your axes.

always draining water

Read the Graph: How many gallons will be in the tub after 8 minutes?

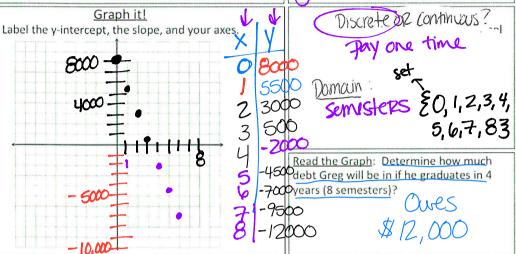
-20(8) + 300 =

Name:	Date:	Period:
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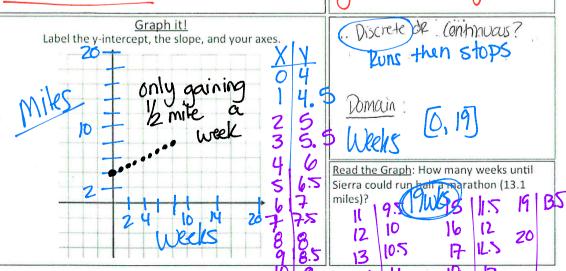
Graphing Linear Equations Word Problems

- 7. Greg saved \$8,000 prior to starting college. Each semester he must pay \$2,500 in tuition and fees. He knows he will eventually be in debt.
- Create the Equation:

 V= 8000 -2500 X



- 8. Sierra wants to train for a marathon. <u>Right now she can run 4 miles.</u> She plans to <u>add</u> half a mile each week.
- U= $4+\pm x$ $y=\pm x+4$



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Question	Exponential Growth or Decay?	Follow directions	
1. You buy a house for \$130,000. It	Growth or decay?	Initial amount	Discrete or continuous?
appreciates 6% per year. How much is it worth in 10 years? $6 + 100 = 106 = 106$		Equation:	Answer:
		130,000(1.06) ^x	\$2328 10.2
2. Mr. MD is losing 1/2 of his hair each year © If he currently has	Growth or decay?	Initial amount	Discrete or continuous?
1,546 hairs on his head, about how many hairs will he have left after 10 years?	Domain: WARS \$0,1,2,3,4, 5,6,7,8,9,	Equation:	Answer: 1. 506 ≈ 2
3. If you invest \$40 in an account for 10 years at a	603 Growth or decay?	$ 54 _{\ell(\frac{1}{2})^{1/2}} =$ Initial amount	Discrete or continuous?
3% interest rate how much money will you have?	Domain:	Equation:	Answer:
4. A population of 100 frogs triples avery year. How many frogs will there be in 5	Growth or decay?	Initial amount (Discrete or continuous?
years? X3	Domain: WarS	Equation:	Answer:
	£0,1,2,3,4,	100(3)	24,300 froas
set n	otation	100(3)	

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5. A species of extremely rare, deep water fish are slowly becoming extinct. If there are a total 821 of this	Growth or decay?	Initial amount (82)	Discrete or continuous?			
type of fish and there are 15% fewer fish each month how many will there be in half a year?	Months [0,1,2,3 a	Equation: y=821(0.85) 821(0.85)	Answer: = (309) Fish			
6. The population of Austin is multiplying by 1.4 per year. In 2010, the population was 500,000. What would be the predicted current population?	Growth or decay? Domain:	Initial amount Equation:	Discrete or continuous? Answer:			
7. A super-deadly strain of bacteria is causing the zombie population to double every day. Currently, there	Growth or decay?	Initial amount 25	Discrete or continuous?			
are 25 zombies.) After how many days will there be 25,600 zombies? Until W. get 25,600	Domain: Day 5 (O, co)	25(2) ¹⁰	Answer: 10 days			

Kange Fombies

25,600

 $(25, \infty)$