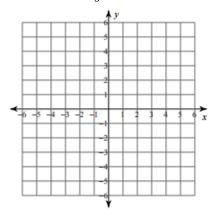
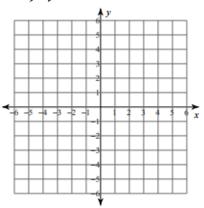
Homework Day 1

1. Graph each line.

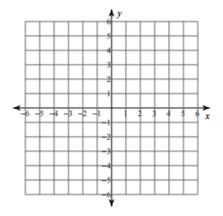
a)
$$y = \frac{4}{3}x - 4$$



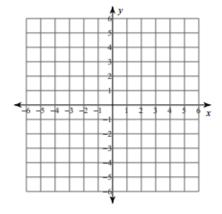
c)
$$y = 4$$



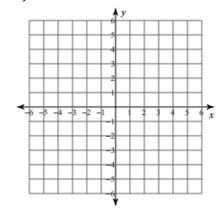
e)
$$y = 3x - 2$$



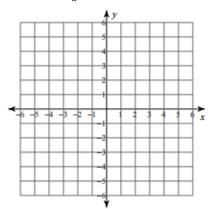
b)
$$y = -3x - 3$$



d)
$$x = 5$$



f)
$$y = \frac{6}{5}x + 5$$



Slope-Intercept Form & Percents

2. Pet owners may have to take out a loan when their animals has a major operation. Buddy needs to have surgery on his leg. The cost of the surgery \$2500. His owner will get a loan this amount over 2 years at a rate of 7.5%.							
	a) How much will the interest be on this loan?						
	b) What is the total cost of the surgery including the loan and the interest?						
3.	You walk into a store and pick out a matching hat and shirt. The hat costs \$25 while the shirt cost \$27. If the sales tax is 5%, what is the cost of both items together?						
4.	You only have \$6 in your hands. You want to buy a combo meal that is \$5.55. The sales tax is 8%. Do you have enough money to buy the combo meal?						
5.	The sporting goods store is having a blowout sale. The store is selling everything with a 40% discount. You want to buy a mountain bicycle that originally sold for a regular price of \$300. If the sales tax is 7.5%, how much do you need to pay?						



Slope-Intercept Form & Percents

Homework Day 2

- 1. Solve.
 - a) 15.8 is what percent of 200?
- b) What is 0.8% of 59?
- 2. Two businesswomen are having lunch at a restaurant. Their bill came to \$47.85, and they want to leave an 18% tip. What is the amount of the tip.
- 3. The price of a set of feeding bowls for dogs had been \$9.25, but was increased to \$11.10. What was the percent increase?
- 4. Dr. Star Blanket gives a 20% discount if his customers pay cash for their office visits. Determine the cost of a \$65 office visit if the customer pays cash.
- 5. Write each equation in slope-intercept form.

a)
$$x - 4y + 1 = 0$$

b)
$$6x - 3y - 2 = 0$$



Slope-Intercept Form & Percents

- 6. Last year the value of John's car was \$15,700. This year the value is \$13,345. What is the percent change in the car's value?
- 7. The regular price of a laptop computer is \$1,000. As part of a promotion a 30% discount is available. The sales tax is 6%. How much do you save after the discount and tax? (Do not forget the 6% sales tax on the regular price.)

8. Alex has \$1,000 worth of stocks. The value of his stocks increased by 20% and then decreased by 20%. Is the value of Alex's stocks back at \$1,000? Show your answer.

9. Find the slope, the y-intercept, and the x-intercept of the graph of each equation using slope-intercept form.

a)
$$y - 4x = 9$$

b.
$$2x + 3y - 4 = 0$$

10. Multiple choice: Which of the following equations has a slope of -2 and a y-intercept of 4?

A.
$$y - 2x = 4$$

B.
$$y + 2x = -4$$

C.
$$2y + 4x = 4$$

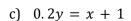
D.
$$2y + 4x = 8$$

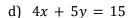
Homework Day 3

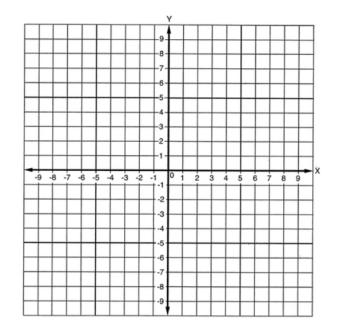
1. Write the equation in slope-intercept form. Then graph the equation on same graph below.

a)
$$2x - y = 3$$

b)
$$2x - 3y - 6 = 0$$







- 2. Solve.
 - a) What is 0.02% of 1,000?
- b) 2.4% of what number is 0.08?

- c) 33.75 is what percent of 75?
- d) \$67,200 is 112% of how much?

Slope-Intercept Form & Percents

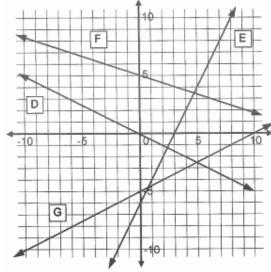
3.	An online bookstore sells books 20% cheaper than a local walk-in bookstore. If a book is \$10 online, how much is the book in the local store?
4.	You deposit \$50 in a savings account that earns 8% annual interest. How much would be in the account after 18 months assuming that no deposits and withdrawals are made?
5.	If you bought goods or services for \$200.00 in the year 2000, the same goods or services would cost \$226.83. What is the percent change in the amount of dollars you have to pay?
6.	When merchandise is returned, a store charges a 15% restocking fee. Michael buys a new digital camera for \$225. He is not satisfied with the camera and he decides to return it paying the 15% restocking fee. Assuming there is no sales tax, how much money would he get back?
7.	Which will result in a higher cost: the price decreases by 10% and then increases by 10% or the price increases by 10% and then decreases by 10% ?



Slope-Intercept Form & Percents

Homework Day 4

- 1. Write the equations of the given graph in slope-intercept form.
 - a) Line D
 - b) Line E
 - c) Line F
 - d) Line G



- 2. The average cost of an education to become a veterinarian is \$147,656, which includes veterinary school. To cover these costs, most students take out loans. What would the interest on a loan be if the rate is 3.25% and the term is 15 years?
- 3. Dr. Jones took out a loan for a van that could be equipped with veterinarian supplies for visits to animal shelters. The van cost \$22,500 and the loan was for 4 years. If the interest rate was 4.5%, how much will be paid?
- 4. Dr. Jones would like a computer system for the office to help with management of the clinic. The cost is \$15,000 and the interest rate is 4.6%. The amount of interest to be paid is \$3,450. How many months is the loan for?

Slope-Intercept Form & Percents

5.	Find the percent of change in the prices below. Round to the nearest whole percent if necessary.								
	a) Old: \$17.50	New: \$14.00	b)	Old: \$213.80	New: \$203.11				
6.	Find the percent a) Regular pric Sales price:	e: \$50	b)	Regular price: Sales price: \$1					
7.		et insurance for her cat. In 2 rance she bought online for \$							

8. The grooming department at a local pet store is running a sale of 35% off glooming. If the regular cost is \$47.75, what is the sale price?



Slope-Intercept Form & Percents

Homework Day 5

1.	Find the regular price.							
	a)	sale price: \$750	discount: 20%	b)	sale price: \$1,140	discount: 5%		
2.		-	ce sees 125 cats. In 2010, 24 t in 2011. Find the percent					
3.			o in 2020. At the end of 201 reight from 2010 to 2011?	1, th	e dog weighed 43.5 l	lb. What was		
4.	Solve.							
	a)	75 is 20% of wha	t number?	b)	120 is what percer	nt of 90?		
	b)	160 is 120% of w	hat number?	d)	What is 200% of 1	44?		



Slope-Intercept Form & Percents

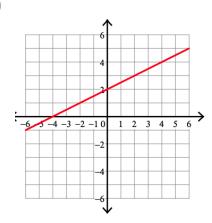
5. Art supplies in Washington, D.C., cost \$28. If the sales tax is 6%, what is the total cost of supplies?

6. Joe leaves \$3 as a tip for a meal that costs \$22. If a good tip is between 15% and 20%, is this a good tip? Explain.

7. Five friends went out to dinner, and the bill came to \$85. They wanted to leave a 17% tip. If they split the bill evenly, how much does each person need to pay?

8. Write the equation in slope-intercept form from each graph.

a)



b)

