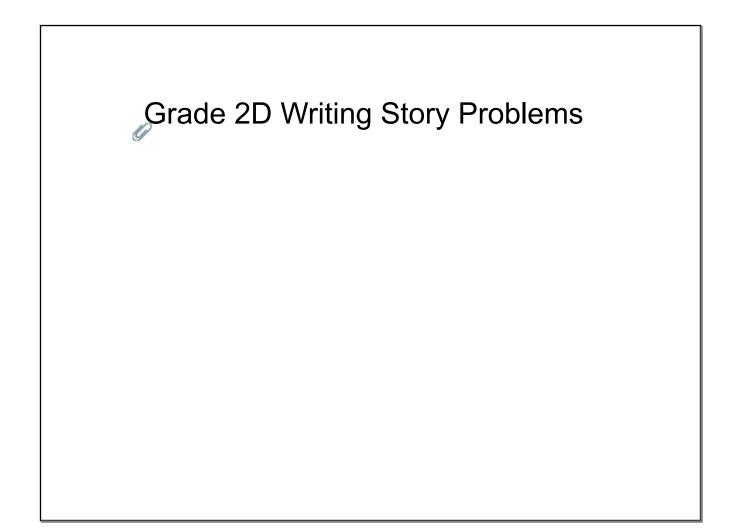


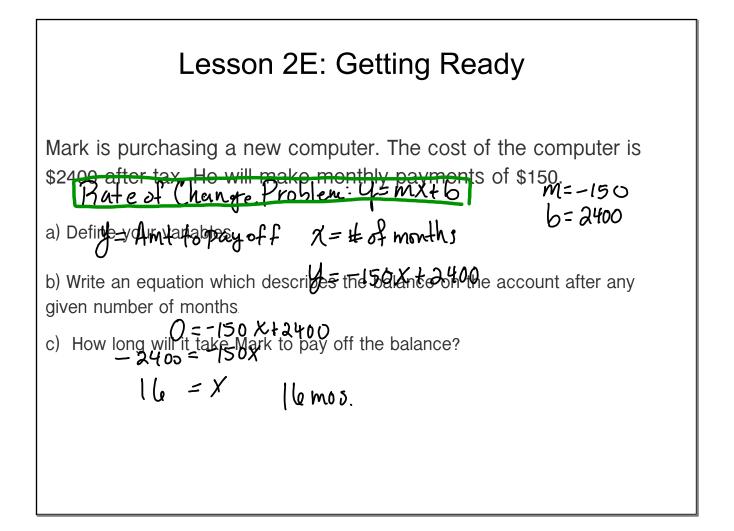
## Questions on 2D Writing Story Problems

IOW YO	iting Story Problems Name:	Per:
vite or	equation in Slope-intercept Form for the following situations.	
	ma gives Brooklyn a piggy bank with \$25 when she was born. Every year, on her	7 6
	ay, Brooklyn puts a \$20 in her bank.	ᠵᠳ᠇᠊ᡗ
	What variables best represent what you need to know (not x and y)?	
	Define those variables.	
	Write an equation to tell how much money Brooklyn will have in any given year.	
	If Brooklyn never used or added more money to the piggy bank, how much money w	
	have in bank on her 15 <sup>th</sup> birthday?	
-	ur trip to Hawaii you need to rent a convertible. There is a charge for each rented car	of \$30 for
	nce and the daily cost is \$90 every day.	
	What variables represent what you need to know?	
b.	Define those variables:	
	Write an equation to show the total cost to rent the convertible.	
	If you rented the convertible for 3 days, how much would you need to pay?	
e.	If you were charged \$480, how many days did you rent the car?	an Dr
	s having a birthday party. It costs \$50 to go bowling. He will need shoes at a cost of \$ pairs of rental shoes for each of his friends.	4
	What variables represent what you need to know?	
	Define those variables:	
	Write an equation to show the total cost of his party.	
	If the party cost \$82, how many people went bowling?	
	If you had 11 friends come, how much would it cost?	
rite an	equation to answer the questions. Try not to use "x" and "y".	
	pa just celebrated a birthday at Kneaders and ordered a pumpkin pie for \$12.	
a.	What variable(s) represent what you need to know?	
с b.	Define those variable(s):	
c.	Define those variable(s):	nown number?
d.	How old will he be if the number is 244?	
basket	layed a game of basketball with your friends. You scored a total of 53 points (no three is good for 2 points and free throw 1 point. Define your variables	e points shots). A
b.	Write an equation.	
	If you make 23 baskets (2 points each), how many free throws did you make?	
toget	Bob and Charlie went to Smith's. Each bought a drink for <i>d</i> dollars and a pack of gun her they spent a total of \$24. Write an equation to represent the situation.	n for \$2. All
b.	Solve for $d$ to find the cost of each drink.	

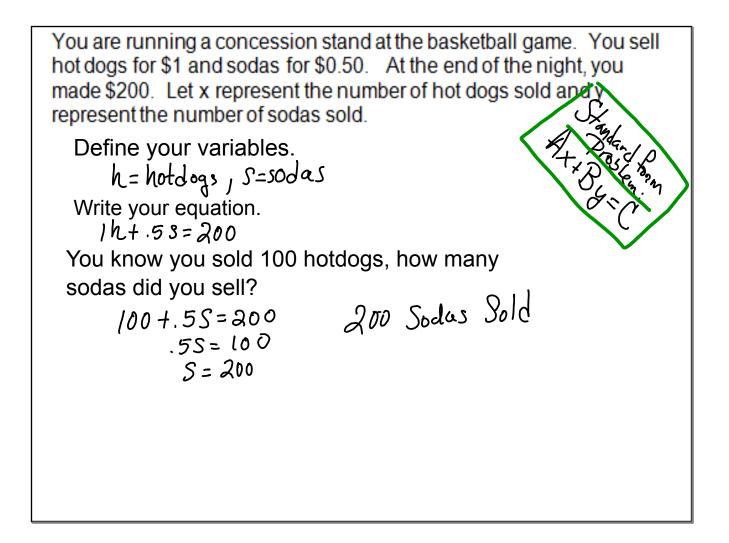
Write an equation in **Standard Form** (Ax + By = C) for the following situations. 7. You buy 5 hamburgers in a restaurant, and 4 shake. You spend exactly \$36. Let h represent the cost of hamburgers, and s represent the cost of shakes. Write an equation to represent the situation. b. If shakes cost \$3.50 each, how much did each hamburger cost. 8. A 100-point test has "t" true and false questions worth 2 points apiece and "m" multiple choice questions worth 4 points apiece. a. What do the variables stand for: t=\_\_\_\_\_, m=\_\_\_\_\_ b. Write an equation that describes all possible numbers of questions on the test. c. If you have 24 multiple choice questions, how many true and false questions will there be? 9. On Saturday, I went to McDonalds with my friends and spent \$24. It took us 15 minutes to ride our bikes there. We bought three drinks and six burgers. a. Write an equation b. Solve your equation for the cost of each burger. c. If each drink cost \$1, how much was each burger? Solve for y and simplify for an exact answer 12.  $3(2 + y^2) - 2 = 40$ 13.  $-2 + 2(y^2 - 5) = 6 + y^2$ 10.  $2y^3 + 2 = 18$  $(3)(y-3), \zeta = \frac{4}{\sqrt{3}}(y-3)(3)$ 7(y-3) = 4.3 $13.\,\frac{7y-1}{4} = \frac{3}{10}$  $12.\frac{y+9}{10} = \frac{2}{8}$  $16. \frac{|-8-8y|}{6} = 5$ 17. |y - 5| = 715.  $\left|\frac{y}{7}\right| = 5$ 

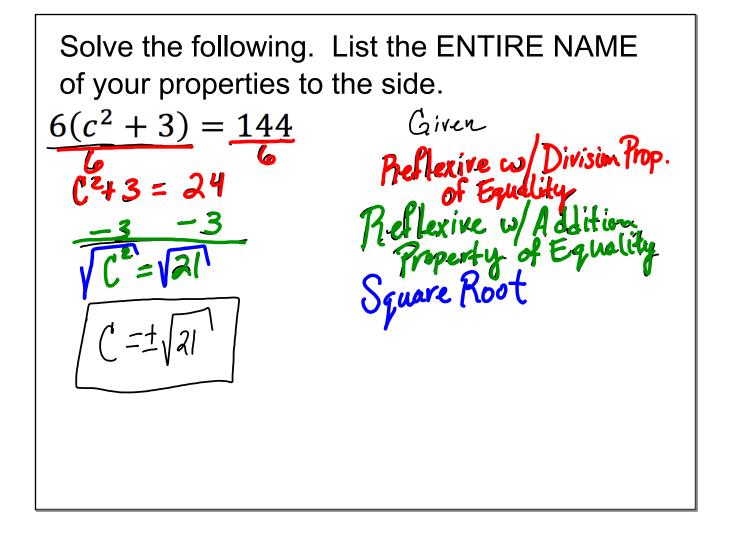
 $18. \ 2 = -4 + \sqrt{a} \qquad \qquad 19. \ -7\sqrt{2a+9} = -35 \qquad \qquad 20. \ 2\sqrt{\frac{h}{4}} = 6$ 

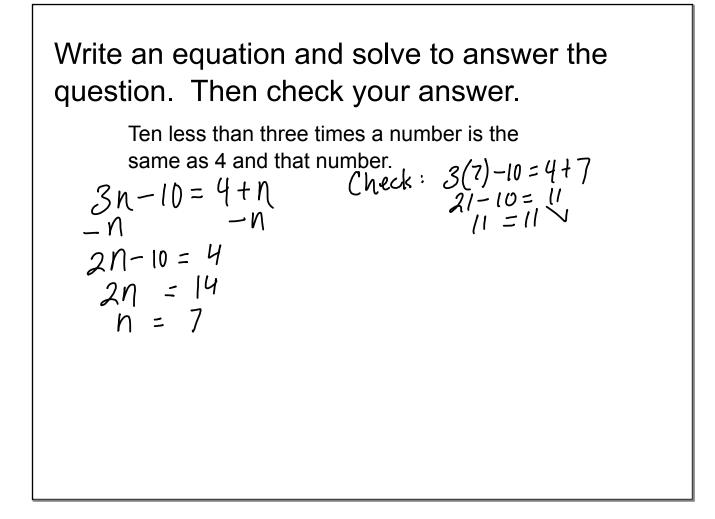


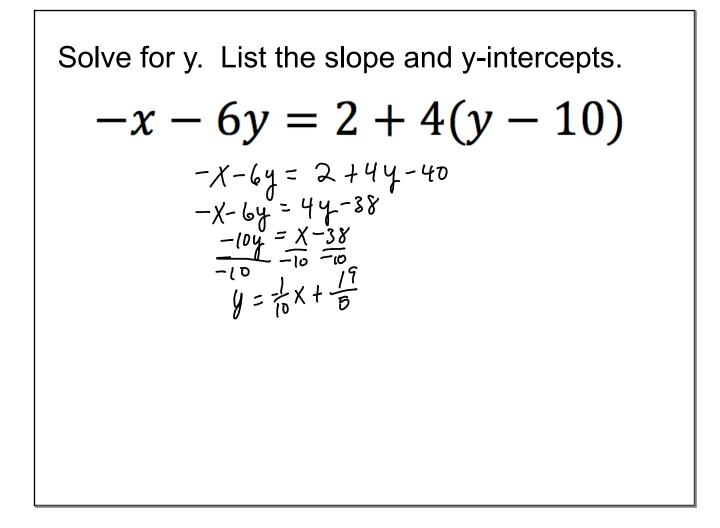


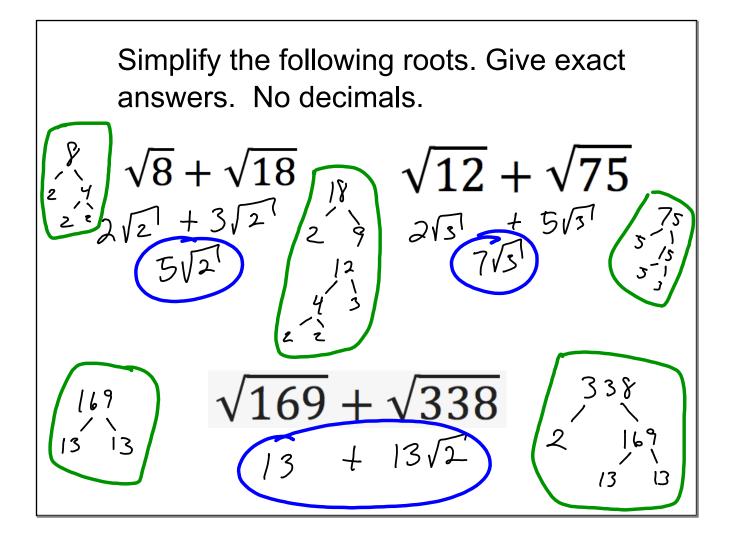
Passengers on a commercial flight are able to make in-flight calls using the built-in telephone system. The calls cost \$3 to connect plus \$1.85 each minutes. f = price of phone call, N = # of minutesa) Define you variables. b) Write an equation the represents the total cost t, to make a call which lasts n number of minutes. c) How match will be 5 (151) and 3 he made \$ 5 (51) for call? Total Cost : \$8.55











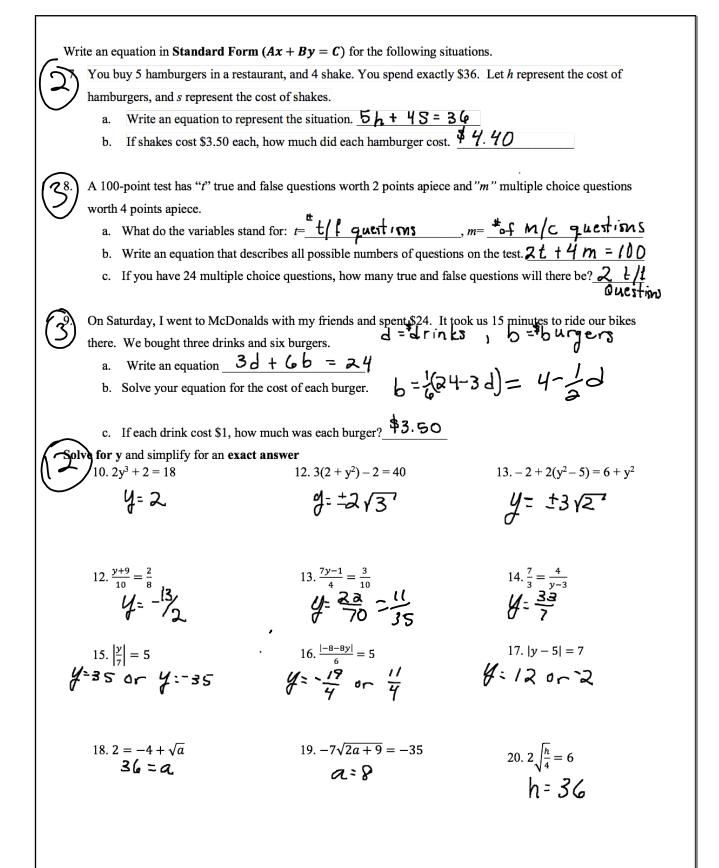
September 27, 2017



September 27, 2017



## September 27, 2017



Write an equation in Standard Form (Ax + By = C) for the following situations.

- 7. You buy 5 hamburgers in a restaurant, and 4 shake. You spend exactly \$36. Let h represent the cost of hamburgers, and s represent the cost of shakes.
  - a.
  - Write an equation to represent the situation. 5h + 45 = 36If shakes cost \$3.50 each, how much did each hamburger cost. 47.40b.
- A 100-point test has "t" true and false questions worth 2 points apiece and "m" multiple choice questions 8. worth 4 points apiece.
  - a. What do the variables stand for:  $t = \frac{t}{t} \frac{1}{t} \frac{1}$
  - b. Write an equation that describes all possible numbers of questions on the test. 2t + 4m = 100
  - c. If you have 24 multiple choice questions, how many true and false questions will there be?  $\frac{2 t/t}{04e^{2}}$

On Saturday, I went to McDonalds with my friends and spent \$24. It took us 15 minutes to ride our bikes there. We bought three drinks and six burgers. 9. there. We bought three drinks and six burgers.

- Write an equation 3d + 6b = 24a. b = {(24-3d)
- b. Solve your equation for the cost of each burger.
- c. If each drink cost \$1, how much was each burger? \$3.50 Solve for y and simplify for an exact answer

 $13. -2 + 2(y^2 - 5) = 6 + y^2$ 10.  $2y^3 + 2 = 18$ 12.  $3(2 + y^2) - 2 = 40$ q= = 2 13' Y=2 y= ±312"

$$12.\frac{y+9}{10} = \frac{2}{8}$$

$$13.\frac{7y-1}{4} = \frac{3}{10}$$

$$14.\frac{7}{3} = \frac{4}{y-3}$$

$$4z = \frac{3}{7}$$

$$15.\left|\frac{y}{7}\right| = 5$$

$$16.\frac{|-8-8y|}{6} = 5$$

$$17.|y-5| = 7$$

$$4z = \frac{3}{7}$$

$$20.2\sqrt{\frac{h}{4}} = 6$$

a=8

h= 36