2]	D Wr	iting Story Problems Name:	Per:
SH	OW YO	UR WORK ONLY IN PENCIL. NO WORK NO CREDIT.	
	. Grand birthda a. b. c.	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 ay, Brooklyn puts a \$20 in her bank. 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 we have in bank on her 15th birthday?	
2.	insura a. b. c. d.	ur trip to Hawaii you need to rent a convertible. There is a charge for each rented care need and the daily cost is \$90 every day. What variables represent what you need to know? 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? If you were charged \$480, how many days did you rent the car?	
3.	for the a. b. c. d.	s having a birthday party. It costs \$50 to go bowling. He will need shoes at a cost of \$50 pairs of rental shoes for each of his friends. 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?	
W	rite an	equation to answer the questions. Try not to use "x" and "y".	
4.	a. b. c.	pa just celebrated a birthday at Kneaders and ordered a pumpkin pie for \$12. What variable(s) represent what you need to know? Define those variable(s): Write the equation that shows how old he is if 400 reduced by twice his age is an unk	
5.	You p	How old will he be if the number is 244?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	
	b.	Write an equation.	
	c.	If you make 23 baskets (2 points each), how many free throws did you make?	
6.	togetl	Bob and Charlie went to Smith's. Each bought a drink for <i>d</i> dollars and a pack of gunner 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.

a. 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

$$10.\ 2y^3 + 2 = 18$$

12.
$$3(2 + y^2) - 2 = 40$$

$$13. -2 + 2(y^2 - 5) = 6 + y^2$$

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

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

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

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

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

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

18.
$$2 = -4 + \sqrt{a}$$

$$19. -7\sqrt{2a+9} = -35$$

20.
$$2\sqrt{\frac{h}{4}} = 6$$