## **Expressions and Equations Homework Problems**

Nar	ne:			Date:	
			• = 1 1/2		
1.	Craig went bowling greatest number of	with \$25 to spend. He rente games Craig could have playe	d shoes for \$5.25 and paid \$4 d?	9.00 for each game. What was	the
	A. 4	В. 5	C. 6	D. 7	
	10 10 10 10 10 10 10 10 10 10 10 10 10 1				
2.	Which expression is	equivalent to $(7x - 5) - (3x - 5)$	2)?		
	A. $10x - 7$	B. $10x - 3$	C. $4x - 7$	D. $4x - 3$	
		r fi.m. Sew 3 - et malle ei			
3.				wants to keep her bill under d each month while staying w	
			Programme in the second		
	A. <i>t</i> < 600	B. $t > 600$	C. $t < 1,800$	D. $t > 1,800$	
	det e e e e e e e e e e e e e e e e e e				
	Solve for $x$ .	1202			
•		general de la la la compaña de la	to an incident or annual		
		0	5x + 78.2 = 287		

B. x = 417.6

A. x = 104.4

C. x = 495.8 D. x = 730.4

A. \$20

B. \$35

C. \$40

D. \$45

6. Doug earns \$10.50 per hour working at a restaurant. On Friday he spent  $1\frac{3}{4}$  hours cleaning,  $2\frac{1}{3}$  hours doing paperwork, and  $1\frac{5}{12}$  hours serving customers. What were Doug's earnings?

A. \$46.97

B. \$47.25

C. \$53.00

D. \$57.75

7. Mr. Gonzales has only \$42.50 to spend at a clothing store. He wants to buy a shirt that costs \$29, including tax, and some bracelets that cost \$4.50 each, including tax.

Write an equation to determine x, the maximum number of bracelets Mr. Gonzales could buy.

Solve the equation to determine the number of bracelets Mr. Gonzales could buy.

- 8. Altitude above sea level is given in positive values and below sea level is given in negative values. Which situation describes a hiker in Death Valley stopping at an altitude of 0 feet?
  - A. The hiker starts at -10 feet then increases altitude by 10 feet.
  - B. The hiker starts at -10 feet then decreases altitude by 10 feet.
  - C. The hiker starts at 10 feet then increases altitude by 10 feet.
  - D. The hiker starts at 0 feet then decreases altitude by 10 feet.

9. Evaluate.

$$\left(-\frac{7}{10} + 0.15\right) \div \left(-0.125\right)$$

- A. -6.8
- B. -4.4
- C. 4.4

D. 6.8

- 10. A pile of newspapers in Ms. McGrath's art class was  $17\frac{3}{4}$  inches high. Each consecutive week, for the next 5 weeks, the height of the pile of newspapers increased by  $8\frac{7}{12}$  inches. What was the height, in inches, of the pile after 3 weeks?
  - A.  $25\frac{3}{4}$
- B.  $26\frac{1}{4}$
- C.  $42\frac{1}{4}$
- D.  $43\frac{1}{2}$

11. Harper has \$15.00 to spend at the grocery store. She is going to buy bags of fruit that cost \$4.75 each and one box of crackers that costs \$3.50.

Write and solve an inequality that models this situation and could be used to determine the maximum number of bags of fruit, b, Harper can buy.

12. Members of a baseball team raised \$967.50 to go to a tournament. They rented a bus for \$450.00 and budgeted \$28.75 per player for meals. They will spend all the money they raised.

Write and solve an equation that models this situation and could be used to determine the number of players, p, the team could bring to the tournament.

13. What is the value of the expression below?

$$-0.75 - \left(-\frac{2}{5}\right) + 0.4 + \left(-\frac{3}{4}\right)$$

- A. -1.5
- B. -0.7
- $C. \quad 0.8$

D. 2.3

- 14. Which expression is equivalent to the expression -3(4x-2) 2x?
  - A. -8x
- B. -16x
- C. -14x 2
- D. -14x + 6

15. Ms. Hernandez has \$100 to spend on parking and admission to the zoo. The parking will cost \$7, and admission tickets will cost \$15.50 per person, including tax. Write and solve an equation that can be used to determine the number of people that she can bring to the zoo, including herself.