Name:	0

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Course 2 Unit 2 Review Packet

Show your work! (All problems are 2 pts unless otherwise noted. 1 pt for work shown, 1 pt for the answer)

1. Expand and simplify: (-3⁴)

2. Expand and simplify:

3. Expand and simplify: 5³

4. Expand and simplify: $-(-4)^2$

5. Simplify: $3*5-7^2+2$

6. Simplify: $-2*(6-3)+8+3^3 \div 9$

7. Simplify: 4+9*2-3÷3

8. Simplify: $-6(3-5)^2+4*2$

- 9. What does PEMDAS stand for (1 pt)?
- 10. Write as an algebraic expression (1 pt): 5 more than a number
- 11. Write as an algebraic expression (1 pt): 3 less than the product of a number all over 4

Course 2 Unit 2 Review Packet

12. Write as an algebraic expression (1 pt): The quotient of goblins and 21

13. Write in words 3 different ways (3 points):

3 ÷ x

1._____

2.

3.

14. Simplify for x = 4:

x-7

15. Simplify for y = -6

7у

16. Simplify for
$$l = 2$$
, $u = -5$, $c = 3$, and $k = 6$

$$l \circ (u+c) \div k$$

17. Simplify for
$$e = 4$$
, $a = 8$, $r = 3$, $c = -2$, and $s = 9$

$$s+c(a-r^2)+e$$

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Course 2 Unit 2 Review Packet

18.

a) Mrs. Sherrard and Ms. Jansen were picking apples. They filled 4 bags with apples, and they carried 3 home in their hands. Write an algebraic expression for the number of apples in this story. (1 pts)

b) How many apples do they have if each bag has 7 apples in it? (2 pt)



19.

a) Martha and Sophie were buying clothes. They spent x amount of dollars at Forever 21, and they spent \$17 at GAP. Write an expression for how much they spent shopping.

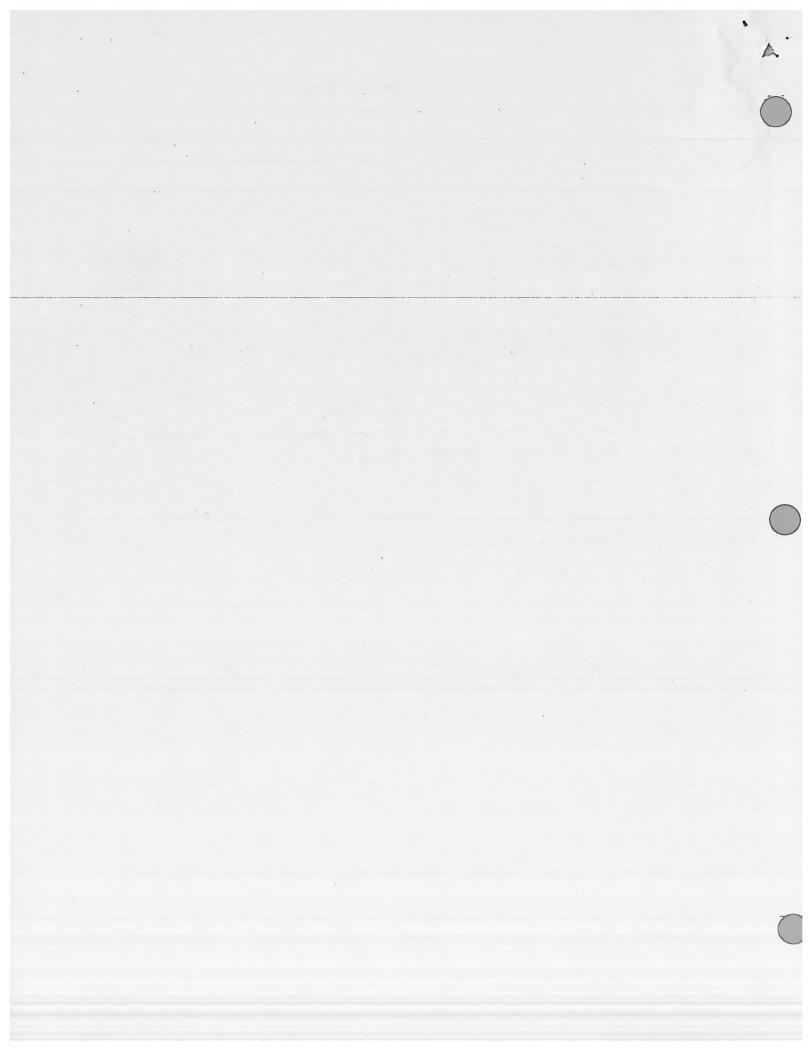
b) If they spent \$43 at Forever 21, how much did they spend total?

20. Simplify using the distributive property:

21. Simplify: -6(x + 6)

10(7 + 4)

22. Simplify: $1 - 3(x + 2) + 4 \cdot 6$



·	Algebraic Expressions Answers	Review Packet + Test Fri. 10/28
	1. $(-3)(-3)(-3)(-3) = 81$ 2. -9^2 $-(9 \cdot 9) = -81$ 3. $5^3 = 5 \cdot 5 \cdot 5 = 125$ 4. $-(-4)^2 = -(-4)(-4) = -10$ 5. $3 \cdot 5 - 7^2 + 2$ $3 \cdot 5 - 49 + 2$ -34 + 2 -34 + 2 -32 -32 -32 -32 -32 -32 -32 -32	$62 \cdot (6-3) + 8 + 3^{3} - 9$ $-2 \cdot 3 + 8 + 3^{3} - 9$ $-2 \cdot 3 + 8 + 27 - 9$ $-6 + 8 + 27 - 9$ $-6 + 8 + 3$ $2 + 3$ 5 $86(3-5)^{2} + 4 \cdot 2$ $-6(-2)^{2} + 4 \cdot 2$ $-6(4) + 4 \cdot 2$ $-24 + 8$ -16
	9. Parentheses, exponents, add/subtract 10. n+5 11. n-3 H 12. a 21 13. the quotient of 3 3 divided by x 3 over x 14. H-7 = [-3] 15. 7(-6) = [-42]	

$$17. \quad 9 + -2(8-3^2) + 4$$

 $9 + -2(-1) + 4$
 $9 + 2 + 4$
 $11 + 4$

$$560$$
20. $10(7+4)$ 7 4
70+40 $10[$
110 70+40

21.
$$-6(x+6)$$
 × +6
 $-6x-36$ -6 -6x -36
 $-6x+(-36)$

22.
$$1 - 3(x + 2) + 4 \cdot 6$$

 $1 - 3x - 6 + 4 \cdot 6$
 $1 - 3x - 6 + 24$
 $-3x + 1 - 6 + 24$
 $-3x - 5 + 24$
 $-3x + 19$