Name: Class Hour:

6ᵗʰ Grade Math
Homework Tracking Sheet

Chapter 6

Homework Assignment	Topic	Score	Prediction of test score (%)
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Chapter 6 Test

Objective 1: 6.EE.A.1 _____ / 10

Write and evaluate numerical expressions involving whole-number exponents.

Write each product using an exponent.

1. $6 \times 6 \times 6$

2. $10 \times 10 \times 10 \times 10 \times 10$

Write each power as a product of the same factor. Then find the value.

3. 7^2

4. 5^3

Find the value of each expression.

5. $12 - 2^3$

6. $16 + 4^4 - 72$

7. $5^3 + 4 - 9$

8. $2^3 (9 + 2)$

9. $16 - 4^2 + 8$

10. $(16 - 4) + 2^5$

Objective 2: 6.EE.A.2.C _____ / 10

Evaluate expressions at specific values of their variables.

Complete the table.

Algebraic Expressions	Variables	Numbers	Operations
11. $5d + 2c$			
12. $5w - 4y + 28$			
13. $xy \div 4 + 3m - 6$			

Evaluate each expression if $m = 4$ and $n = 5$.

14. $m + m$

15. $n - m$

16. mn

Evaluate each expression if $x = 7$, $y = \frac{1}{2}$, and $z = 8$.

17. $x + y + z$

18. $x + 2z$

19. $4y$

20. $9y + (2x + 1)$

Define a variable (21-23) and write each phrase as an algebraic expression.

21. seven feet more than twice the height.

22. twice the number of exercises, minus 2.

23. two years less than Carlos's age.

24. One-half of g is subtracted from 8

25. Add three-fourths to 9 times r

26. 6 is added to one-half of f

27. Subtract five-sixths from 5 times f

28. Add 3 to 5 times b

29. Take away 7 from 2 times h

30. 3 times the sum of c and 6

Determine whether the two expressions are equivalent. If so, tell what property is applied. If not, explain why.

31. $7(3 \cdot 2)$ and $21 \cdot 14$

32. $16 \div 8$ and $8 \div 16$

33. $27 \cdot 1$ and 1

34. 16(2 + 18) and 32 + 18

35. 12 − (5 − 2) and (12 − 5) − 2

Draw lines to match the equivalent expressions.

2 (a -3)   12

4b • 9   -6x

x (3 - 9)   2a − 6

12 (2 ÷ 2)   9 • 4b

3(x - y)   3x − 3y

Objective 5: 6.EE.A.3   _____ / 10

Apply the properties of operations to generate equivalent expressions *(specifically apply the distributive property to the expression).*

Use the distributive property to find each expression mentally. Show the steps you used.

41. 5×86 **42.** 7×126

Use the Distributive Property to rewrite each algebraic expression.

43. $5(2x + 6)$ **44.** $8(4 + x)$ **45.** $6(3x + 4)$

Factor each expression.

46. $21x + 15y$ **47.** $2x + 14y$ **48.** $15x + 10y$

49. $27 + 9v$ **50.** $33 + 11s$

Simplify each expression.

51. $13x + 2x$ **52.** $2x + 5 + 6x$ **53.** $6(6x + 8x)$

54. $4(9x + 3)$

55. AMUSEMENT PARKS Four friends went to a local amusement park. Three of the friends bought ride tickets for x dollars, plus a game pass for $10. The other friend bought just a ride ticket. **Write and simplify** an expression showing the amount of total money spent.

    a) **Write:**

    b) **Simplify:**

56. ALGEBRA Translate and simplify the expression: the sum of fifteen and a number plus twelve.

    a) **Write:**

    b) **Simplify:**

57. AGE Julianna is x years old. Her sister is 2 years older than her. Her mother is 3 times as old as her sister. Her Uncle Rich is 5 years older than her mother. Write and simplify an expression representing Rich's age.

    a) **Write:**

    b) **Simplify:**

Chapter 6 • Chapter Test

Student Name: _____ Class Hour: _____

Retest?

Objective 1 6.EE.A.1- Write and evaluate numerical expressions involving whole-number exponents.   _____ / 10   Y / N

Objective 2 6.EE.A.2.C- Evaluate expressions at specific values of their variables.   _____ / 10   Y / N

Objective 3 6.EE.A.2.A- Write expressions with letters standing for numbers.   _____ / 10   Y / N

Objective 4 6.EE.A.4- Identify when two expressions are equivalent   _____ / 10   Y / N

Objective 5 6.EE.A.3- Apply the distributive property to generate equivalent expression.   _____ / 10   Y / N

Objective 6 6.EE.A.3- Apply the properties of operations to generate equivalent expressions.   _____ / 10   Y / N

100							
90							
80							
70							
60							
50							
40							
30							
20							
10							
0							
	Objective 1: 6.EE.A.1 Write and evaluate numerical expressions involving whole-number exponents.	**Objective 2:** 6.EE.A.2.C Evaluate expressions at specific values of their variables.	**Objective 3:** 6.EE.A.2.A Write expressions with letters standing for numbers.	**Objective 4:** 6.EE.A.4 Identify when two expressions are equivalent	**Objective 5:** 6.EE.A.3 Apply the distributive property to generate equivalent expression.	**Objective 6:** 6.EE.A.3 Apply the properties of operations to generate equivalent expressions.		