

Gold Test on Friday 1/11

Name: Study Guide #9 Period: _____

Write an algebraic expression to translate each written phrase or real-life scenario.

1. the sum of 4 and a number y _____
2. 6 less than a number x _____
3. the quotient of a number m and 16 _____
4. the product of a number t and 9 _____
5. I want to double my profits from last year. _____
6. The number of apples split evenly between 5 people. _____
7. Liz has 10 more cans of soda than Peter. _____
8. Five years less than Mary's age _____
9. Bowl three games and pay for \$2.00 shoe rental _____
10. Mei paid \$8.00 to enter the carnival area and then bought 50 game tickets. _____

Multi-Part Lesson 1-3:

Part D

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Write each product using an exponent.

1. $4 \times 4 \times 4 \times 4$

2. $10 \times 10 \times 10$

3. 14×14

4. $3 \times 3 \times 3 \times 3$

5. $2 \times 2 \times 2$

6. $6 \times 6 \times 6 \times 6 \times 6$

7. $8.2 \times 8.2 \times 8.2$

8. $7 \times 7 \times 7 \times 7 \times 7 \times 7$

9. $9.5 \times 9.5 \times 9.5$

Write each exponent in expanded form.

10. 9^4

11. 2^3

12. 3^5

13. 4^3

14. 6^5

15. 5^4

16. 8.5^3

17. 1.3^2

18. **FOOD** The number of Calories in a small banana can be written as 2^7 . What whole number does 2^7 represent?

Multi-Part Lesson 5-1: Write and Evaluate Expressions

PART E

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Find the value of each expression. Complete on a piece of paper. Show ALL work.

1) $12 + 10 - 5 - 6$

2) $2 \times 3 + 9 \times 2$

3) $8 + 12 \times 4 \div 8$

You may

4) $54 \div (8 - 5)$

5) $4^2 + 3^3$

6) $(11 - 7) \times 3 - 5$

use a calculator.

7) $25 - 9 + 4$

8) $100 \div 10 \times 2$

9) 3×4^3

10) $11 + 4 \times (12 - 7)$

11) $6^2 - 7 \times 4$

12) $12 + 5^2 - 9$

PART F

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Evaluate each expression if $m = 2$ and $n = 4$. Show all work.

1. $m + m$

2. $n - m$

3. mn

4. $3m + 5$

5. $2n + 2m$

6. $m \cdot 0$

7. $64 \div n$

8. $12 - m$

9. $5n \div m$

10. $6mn$

11. $4n - 3$

12. $n \div m + 8$

Evaluate each expression if $a = 3$, $b = 4$, and $c = 12$. Show all work.

13. $a + b$

14. $c - a$

15. $a + b + c$

16. $b - a$

17. $c - a \cdot b$

18. $a + 2 \cdot b$

19. $b + c \div 2$

20. ab

21. $25 + c \div b$

22. $c \div a + 10$

23. $2b - a$

24. $2ab$