

Name: _____ *For* _____ Period: _____

Math 7: Equations Day 1 – Variables and Expressions

Directions: Write an algebraic expression for each word phrase

1. 10 less than x

2. 5 more than d

3. 7 minus f

4. the sum of 11 and k

5. x multiplied by 6

6. a number t divided by 3

7. one fourth of a number n

8. the product of 2.5 and a number t

9. the quotient of 15 and y

10. a number q tripled

11. 3 plus the product of 2 and h

12. 3 less than the quotient of 20 and x

13. The local video store charges a monthly membership fee of \$5 and \$2.25 per video. Write a variable expression to represent the situation.

Videos (v)	Cost (c)
1	\$7.25
2	\$9.50
3	\$11.75

14. Dorothy gets paid to walk her neighbor's dog. For every week that she walks the dog, she earns \$10. Write a variable expression to represent the situation.

Weeks (w)	Pay (p)
4	\$40.00
5	\$50.00
6	\$60.00

Write an algebraic expression for each word phrase.

15. 8 minus the quotient of 15 and y
16. a number q tripled plus z doubled
17. the product of 8 and z plus the product of 6.5 and y
18. the quotient of 5 plus d and 12 minus w
19. **Error Analysis:** A student writes $5y \cdot 3$ to model the word phrase *the sum of 5y and 3*. Explain the error.