Name: _____ Date: _____

Identifying Parts and Translating Expressions

1. Identify each term, coefficient, constant, and factor in $5x^2+3x+12$.

2. Write an expression with 4 terms, containing the coefficients 3, 6, and 9.

Translate each verbal expression to an algebraic expression.

3. Eight more than 3 times a number

4. The difference of 10 and a number

5. The quotient of 12 and a number

6. 15 less than twice a number

7. Three-fourths times the square of a number

8. The product of 5 and the cube of a number increased by the difference of 6 and x

9. Half the sum of x and y decreased by one-third of y

10. The sum of a number and six, divided by eight

Translate each algebraic expression to a verbal expression.

11. $25-x$

12. x^4-12

13. $3+\frac{1}{2}x$

14. 8^2-x

15. $\frac{6-x}{13}$

16. $25(6+x)$

Name: Key Date:

Identifying Parts and Translating Expressions

1. Identify each term, coefficient, constant, and factor in $5x^2+3x+12$.

Terms: $5x^2$, $3x$, 12 Coefficient: 5, 3 constant: 12 Factors: $5, x^2, 3, x$

2. Write an expression with 4 terms, containing the coefficients 3, 6, and 9.

Answers will vary $3x^3+6x^2+9x+4$

Translate each verbal expression to an algebraic expression.

3. Eight more than 3 times a number

$8+3x$

4. The difference of 10 and a number

$10-n$

5. The quotient of 12 and a number

$\frac{12}{n}$

6. 15 less than twice a number

$2n-15$

7. Three-fourths times the square of a number

$\frac{3}{4}x^2$

8. The product of 5 and the cube of a number increased by the difference of 6 and x

$5x^3+(6-x)$

9. Half the sum of x and y decreased by one-third of y

$\frac{(x+y)}{2}-\frac{1}{3}y$

10. The sum of a number and six, divided by eight

$\frac{x+6}{8}$

Translate each algebraic expression to a verbal expression.

11. $25-x$

A number less than 25

12. x^4-12

The difference of a number to the fourth power and 12.

13. $3+\frac{1}{2}x$

The sum of 3 and half of a number

14. 8^2-x

The difference between eight squared and a number

15. $\frac{6-x}{13}$

The difference of six and x, divided by thirteen

16. $25(6+x)$

The product of twenty-five and the sum of six and a number.