Translating Expressions
Topic 1 Homework Assignment

Name _____

Period _____

Translate the following algebraic expressions. TEXT TAG for full credit.

1 | The product of 7 and a number

_____

2 | The difference of x and 5

_____

3 | 14 increased by a number cubed

_____

4 | A number split up into 5 groups

_____

5 | 6 less than the product of 10 and a number

_____

6 | Seven times the quantity of a plus b

_____

7 | A number squared divided by 15

_____

8 | Fifteen subtracted from triple a number

_____

9 | The quotient of 4 and a number to the fifth power

_____

10 | $2(a-b)$

_____

11 | $7 - 3x^2$

_____

Fill in the table and write an expression to represent each situation

12. Darren saved twice the amount of money Jesse did. If Jesse saved m dollars, how much did Darren save?

Jesse	Darren
$5	
$12	
m	

Expression: _____

13. George read a third of the pages Bill read for his summer reading project. If Bill read p pages, how many pages did George read?

Bill	George
30	
75	
p	

Expression: _____

14. The width of a box is 4 inches less than the length. If the width of the box is x inches, how long is the length?

Length	Width
	4
	9
	x
24	

Expression: _____

15. Simon spent $12 per ticket for him and his friends to go to a concert. If Simon bought t tickets, how much money would Simon spend?

Tickets	Money Spent
3	
7	
t	
	$144

Expression: _____

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Name ___Key___

Period _____

Translate the following algebraic expressions. TEXT TAG for full credit.

1 The product of 7 and a number

$$7 \cdot n$$

2 The difference of x and 5

$$x - 5$$

3 14 increased by a number cubed

$$14 + c^3$$

4 A number split up into 5 groups

$$p \div 5$$

5 6 less than the product of 10 and a number

$$10 \cdot a - 6$$

6 Seven times the quantity of a plus b
$(a + b)$

$$7 \cdot (a + b)$$

7 A number squared divided by 15

$$\frac{x^2}{15}$$

8 Fifteen subtracted from triple a number
$3x$

$$3x - 15$$

9 The quotient of 4 and a number to the fifth power
n^5

$$4 \div n^5$$

10 $2 \cdot (a - b)$

Two times the quantity of a minus b

11 $7 - 3x^2$

Seven minus the product of Three and a number squared.

Fill in the table and write an expression to represent each situation

12. Darren saved twice the amount of money Jesse did. If Jesse saved m dollars, how much did Darren save?

Jesse		Darren
$5	·2	$10
$12	·2	$24
m	·2	$m \cdot 2$

Expression: $m \cdot 2$

13. George read a third of the pages Bill read for his summer reading project. If Bill read p pages, how many pages did George read?

Bill		George
30	÷3	10
75	÷3	25
p	÷3	$p \div 3$

Expression: $p \div 3$

14. The width of a box is 4 inches less than the length. If the width of the box is x inches, how long is the length?

Length			Width
8	4	+	4
13	4	+	9
$x + 4$	4	+	x
24			20

Expression: $x + 4$

15. Simon spent $12 per ticket for him and his friends to go to a concert. If Simon bought t tickets, how much money would Simon spend?

Tickets		Money Spent
3	x 12	$36
7	x 12	$84
t	x 12	$t \times 12$
12		$144

Expression: $t \cdot 12$