

Title: Sep 23 - 11:37 AM (1 of 9)

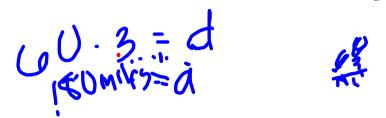
<u>Sept. 20, 2006</u>

State the meaning of the variable expression and name the operation.

Evaluate the variable expression when x = 3

$$7x = 7(3) = 21$$
  
 $5 + x = 5 + (3) = 3$   
 $12/x = 2/(3) = 4$   
 $x - 2 = (3) - 3 = 1$ 

Find the distance traveled by a car moving at an average speed of 60 mph for 3 hours. ///=



Find the perimeter of a square with each side 12 inches long.

$$P = 5 + 5 + 5 + 5$$
  
= 12 + 12 + 12 + 0  
= 48 in

## Write the expression in exponential form

3 squared 3

x to the fourth power  $\times$  4 s cubed  $\le$  3

## Evaluate the variable expression when

$$s = 2 \text{ and } t = 4$$

$$(t - s)^3 = (24) - (2)^3 = (2)^3 - 8$$

$$(s^2) + (t^2) = (2)^3 + (4)^2 = 24 + (16) = 20$$

$$(t + s)^2 = (4) + (2)^2 = 26$$

Find the area of a square with a side of 4 feet.

## Evaluate the variable expression when

$$x = 2$$

$$0 = 20 - 4x^{2} = 20 - 4(2)^{2} = 20 - 4 \cdot 4 = 20 - 16 = 4$$

$$2 = 6 + 3x^{3} = 6 + 3(2)^{3} = 6 + 3 \cdot 8 = 6 + 24 = 30$$

$$2x = 2(2)$$

$$x^{2} = 1 + 5 = (2)^{2} - 1 + 5 = 4 - 15 = 3 + 5$$

$$x^{2} = 1 + 5 = (2)^{2} - 1 + 5 = 4 - 15 = 3 + 5$$

Your friend makes 4 field goals. You make three times as many field goals as your friend plus one. How many point do you have if each field goal is worth 3 points. friend = 4 coal c

$$13.3 - 39_{points} = 12 + 1$$

$$= 13 - 39_{points} = 13 - 39_{qoints}$$

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Use mental math to solve: 2 = 6 - x

What Number Subtracted from 6
equals 2? 4

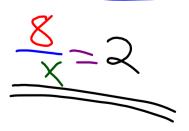
Check if 3, 4, and 5 are solutions for 3n - 4 = 8

$$\frac{3(3)-4=8}{9-4=8}$$
  $\frac{3(4)-4=8}{12-4=8}$   $\frac{3(5)-4=8}{15-4=8}$   $\frac{5+8}{15-4=8}$  Not a Solution Not a tion

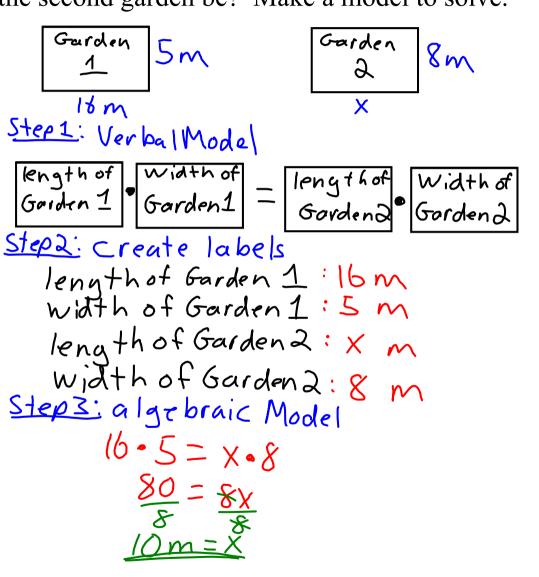
Write these sentences as an equation.

The product of 5 and a number is 25.

The quotient of 8 and a number is 2.



You want two rectangular gardens to have the same area. The first is 5 meters by 16 meters. The second is 8 meters wide. How long should the second garden be? Make a model to solve.



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What is the domain and range of the following.

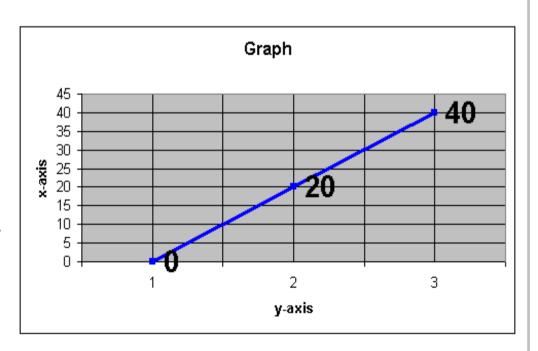
Domain
Range

Input	0	1	2	3
Output	0	20	40	60

Domain: {0,1,2,3} Range: {0,20,40,60}

Make a function to represent the above table.

Graph the function.



## Chapter Test Sections 1.1-1.8

Thursday, Sept. 21, 2006