

# MasterMath

Name \_\_\_\_\_

## Rewriting equations and formulas

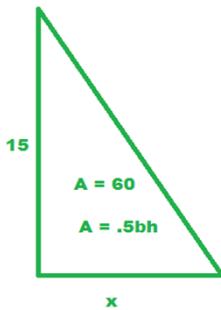
Date \_\_\_\_\_

1. Solve these equations for y

| equation             | y = |
|----------------------|-----|
| $y - 3 = x + z$      |     |
| $2x + y = 2z$        |     |
| $z - 3y = 8x$        |     |
| $x + y = z - y$      |     |
| $3z + 2y + 4 = x$    |     |
| $z - 6y + 2 = x + 2$ |     |
| $xy = z + 2$         |     |
| $3y - 2x = 5z + 2$   |     |

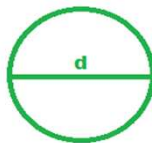
| equation           | y = |
|--------------------|-----|
| $x - 1/2y = 6z$    |     |
| $3z + .5y = 11x$   |     |
| $6x = y - z$       |     |
| $15x + 2y = z$     |     |
| $2z = 4x + 3y$     |     |
| $1/3x - 2/3y = 2z$ |     |
| $z + 2y = 5x$      |     |
| $\pi + y = z$      |     |

2. Solve for x



3.

$A = 78.5$   
 $d = 10$   
 $\pi = 3.14$   
 Solve for r



$$A = \pi r^2$$

4. A farmer has 180 acres planted.  $1/4$  is soy beans (S); he has twice as much planted as corn (c); and the rest is tomatoes (t). How many acres of tomatoes does he have planted?

5. The formula to convert temperatures from Fahrenheit (F) to Kelvin (K) is  $K = 5/9(F - 32) + 273.15$ . Solve this formula for F.

6. Referring to Problem 5, above, if the temperature is  $300^\circ$  Kelvin, what is the temperature in Fahrenheit?