

# MasterMath

Name \_\_\_\_\_

Date \_\_\_\_\_

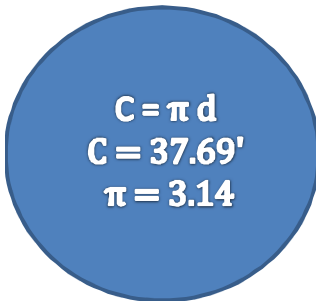
## Literal Equations

1. Solve for x; simplify.

Equation	Solved for x
$x + y = 8$	$x = 8 - y$
$2x = 4y + 2z$	$x = 2y + z$
$\frac{1}{3}x - 2y = z$	$x = 6y + 3z$
$xyz = 1$	$x = 1/yz$
$z(x + y) = 4$	$x = 4/z - y$
$3x - 2y = 12$	$x = \frac{2}{3}y + 4$

2. Solve for d

12'



3.  $\frac{\text{part}}{\text{whole}} = \frac{\text{Percent}}{100}$       27 is 30% of what number?

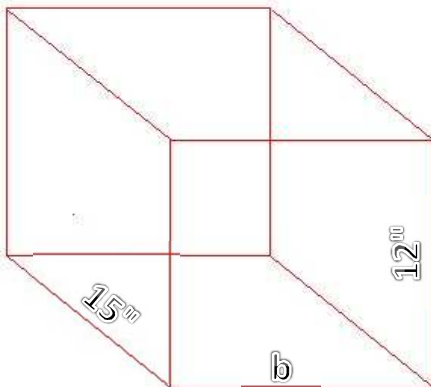
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4. After completing 6 laps of the race, the runner had finished 40% of the total race. How many laps comprised the total race?

15 laps

5. The Volume of a Prism is calculated using this formula:  $V = bhl$ . If the Volume of this prism is 1980 cu. in., what is the base length?

11"



6. Solve for x:  $4x + b = 2x + c$

$x = \frac{1}{2}(c - b)$

7. Speed equals Distance over Time ( $S = d/t$ ). Your speed averaged 40 MPH. You traveled a distance of 220 miles. Write an equation to determine time if you know speed and distance. Determine your time.

Formula	Time
$t = d/S$	5.5 hours