

MasterMath

Name _____

Solving Expressions with Multiplication and Division

Date _____

1. Please solve for the variable:

	answer
$3x = 6$	
$5z = 15$	
$x/5 = 15$	
$25 = z/2$	
$9x + x = 85$	

	answer
$22 = 15x - 4x$	
$-\frac{2}{3}y = 22$	
$\frac{1}{2}z + z = 9$	
$1.5x = 60$	
$x/6 = 42$	

	answer
$5/3x = 10$	
$y(1+5) = 18$	
$x \div 9 = 2$	
$-x = 19$	
$-3p = -24$	

What is the "number":

- A number divided by 2 equals 15.
- Two times a number plus 3 times the same number equals 15
- Sixteen equals a number times 2.
- The product of a number and 2.5 is ten.
- If you walk at an average pace of 3.25 MPH, how long will it take you to walk $8\frac{1}{8}$ miles?
- Two-thirds of the households in your town subscribe to the paper. The paper has subscriptions with one hundred and twenty households. How many household are in your town?
- Tuition at BIG State University is $\frac{3}{8}$ the cost of tuition at Pinky's Private University, where the annual tuition is \$9600. What is the tuition at BIG State?
- Your parents take your family on a trip to Idaho. It has taken you 6.5 hours to get $\frac{2}{3}$ of the way there. How much longer will you have to travel before you get there?
- A number divided by $\frac{1}{8}$ is $\frac{1}{16}$. What is the number?
- Twelve times a number equal four times six. What is the number?
- You are saving up to buy tickets to a concert. You've saved \$22, which is $\frac{2}{3}$ of what you need for the ticket. How much does the ticket cost?
- You are $\frac{3}{4}$ as tall as your brother. You are 54" tall. How tall is your brother?