Section 2.2: THE MULTIPLICATION PROPERTY OF EQUALITY

When you are done with your homework you should be able to ...

- π Use the multiplication property of equality to solve equations
- π Solve equations in the form of -x = c
- π Use the addition and multiplication properties to solve equations
- π Solve applied problems using formulas

WARM-UP:

Solve:

1. 5z-12 = z+82. x = -7(2-x)+18

THE MULTIPLICATION PROPERTY OF EQUALITY



Example 1: Solve the following equations. Check your solutions.

1.
$$-5z = -20$$
 4. $-\frac{1}{8}x = 6$

3. 8x - 3x = -45 **6**. 5y + 6 = 3y - 6

APPLICATIONS

1. The formula $M = \frac{n}{5}$ models your distance, *M*, from a lightning strike in a thunderstorm if it takes *n* seconds to hear thunder after seeing the lightning.



If you are three miles away from the lightning flash, how long will it take the sound of thunder to reach you?