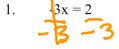
## Section 3.2 Solving Equations Using Multiplication and Division

## Transformations That Produce Equivalent Equations

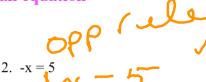
- 1. multiply the same value to both sides of an equation
- Divide the same value to both sides of an equation

## Examples



3. 
$$\frac{x}{9} = -25$$

5. 
$$-14 = -\frac{7}{8}m$$



$$\frac{2. -x = 5}{-1} x = 5$$

$$x = -5$$

4. 
$$-\frac{x}{6} = 9$$





- a. A strobe light emits 14 flashes per second. Find the total number of flashes it 7. emits in a 5-minute period.
  - b. A time-lapse camera photographed a growing plant at a rate of 25 frames per hour over several days. For how many days was the plant photographed if there were a total of 17,400 frames?
- 8. The two triangles are similar. What is the length of side  $\overline{RS}$ ?

