Alg 1 2.2 Solve equations using addition and subtraction Solve equations using multiplication and division

Solve
Addition property of equality
Multiplication property of equality

Algebra tiles

One-Step what makes it true? $\frac{8}{2} = \frac{8}{2}$ 4 = 4

KeyConcept Subtraction Property of Equality

If an equation is true and the same number is subtracted from each side of the Words equation, the resulting equivalent equation is also true.

Symbols For any real numbers a, b, and c, if a = b, then a - c = b - c.

Examples 87 = 8787 - 17 = 87 - 17

70 = 70

2A. 27 + k = 30

K = 3 2B. -12 = p + 16 -28

KeyConcept Multiplication Property of Equality

Words If an equation is true and each side is multiplied by the

same nonzero number, the resulting equation is equivalent.

Symbols For any real numbers a, b, and c, $c \neq 0$, if a = b, then ac = bc.

Example If x = 5, then 3x = 15.

$$\frac{2x}{3} = \frac{10}{2} \frac{4}{1} = \frac{5}{4}$$

$$1x = 5$$

$$x = 5$$

$$x = 5$$

$$\frac{3}{5}k = 6$$

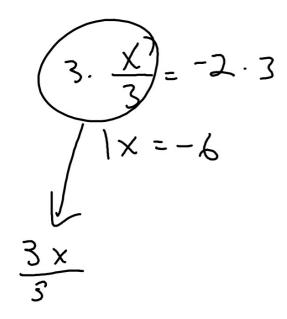
$$\frac{3}{5}k = 6$$

$$\frac{3}{5} = \frac{10}{4} = \frac{2}{3}b$$

$$\frac{3}{5}k = 6$$

$$\frac{3}{5} = \frac{10}{4} = \frac{2}{3}b$$

$$\frac{3}{5}k = \frac{10}{4} = \frac{10}{3}b$$



1.
$$g + 5 = 33$$

2.
$$104 = y - 67$$

3.
$$\frac{2}{3} + w = 1\frac{1}{2}$$

Solve

$$7 = -5.7$$

11.
$$\frac{a}{36} = \frac{4}{9}$$

$$n = 10 \div \frac{3}{3}$$