

Unit 3 - Equations

Solving Equations using
Division and Multiplication
Section 7.2
Pg. 346-349

Classwork pp. 348-9: 15, 17, 19, 21, 24, 27, 31

Homework pp. 348-9: 16, 18, 22, 23, 25, 26, 28, 30, 32, 34, 35, 39, 40, 45, 46, 47, 48

Opposite operations: $+$ $\longleftrightarrow$ $-$
 $\times$ $\longleftrightarrow$ $\div$ } allow us to isolate the variable

Solve.

15. $3x = 15$

$$\frac{3x}{3} = \frac{15}{3}$$

$$\Rightarrow x = 5$$

19. $-6t = -24$

$$\frac{-6t}{-6} = \frac{-24}{-6}$$

$$\Rightarrow t = +4$$

24. $\frac{x}{2} = 2$

$$\left(\frac{x}{2}\right)(2) = 2(2)$$

$$x = 4$$

31. $-2 = \frac{t}{12} \Rightarrow \frac{t}{12} = -2$

$$\Rightarrow \left(\frac{t}{12}\right)(12) = -2(12)$$

$$t = -24$$

17. $-8x = 16$

$$\frac{-8x}{-8} = \frac{16}{-8}$$

$$\Rightarrow x = -2$$

21. $2x = 24$

$$\frac{2x}{2} = \frac{24}{2}$$

$$\Rightarrow x = 12$$

27. $-4 = \frac{p}{3}$

$$\Rightarrow \frac{p}{3} = -4$$

$$\Rightarrow \left(\frac{p}{3}\right) \times 3 = -4 \times 3$$

$$p = -12$$

Recall: reflexive
property of "="

$$a = b$$

$$\Rightarrow b = a$$