

Two-Step Equations

1. Directions: Fill in the blanks to solve each equation.

1. $6x - 18 = 33$

$$6x - 18 \xrightarrow{+18} = 33 \xrightarrow{+18} \quad \text{Add } \underline{18}$$

$$\frac{6x}{6} = \frac{51}{6}$$

Simplify

Divide

$$x = \underline{\frac{17}{2}} \text{ or } 8\frac{1}{2}$$

2. $\frac{1}{2}x + 4 = -3$

$$\frac{1}{2}x + 4 \xrightarrow{(-4)} = -3 \xrightarrow{(-4)} \quad \text{Add } \underline{-4}$$

$$\frac{1}{2}x = \underline{-7}$$

Simplify

$$\frac{1}{2} \cdot \frac{2}{2}x = -7 \cdot \frac{2}{2}$$

Multiply

$$x = \underline{-14}$$

2. Directions: Solve each equation.

1. $-3x + 10 = 26$

$$-3x + 10 \xrightarrow{(-10)} = 26 \xrightarrow{(-10)}$$

$$\frac{-3x + 10}{-3} = \frac{16}{-3}$$

$$x = \underline{-\frac{16}{3}} \text{ or } -5\frac{1}{3}$$

Solution:

2. $\frac{2}{3}x + 15 = 35$

$$\frac{2}{3}x + 15 \xrightarrow{(-15)} = 35 \xrightarrow{(-15)}$$

$$\frac{2}{3}x = 20$$

$$\frac{3}{2} \cdot \frac{2}{3}x = \frac{3}{2} \cdot 20 \cdot \frac{3}{2}$$

$$x = 160$$

Solution: $x = 160$

2. $\frac{1}{2}x - 12 = 40$

$$\frac{1}{2}x - 12 \xrightarrow{(+12)} = 40 \xrightarrow{(+12)}$$

$$\frac{1}{2}x = 52$$

$$\frac{2}{2} \cdot \frac{1}{2}x = 52 \cdot \frac{2}{2}$$

$$x = 104$$

Solution: $x = 104$

4. $\frac{1}{4}y + 2 = -23$

$$\frac{1}{4}y + 2 \xrightarrow{(-2)} = -23 \xrightarrow{(-2)}$$

$$\frac{1}{4}y = -25$$

$$\frac{4}{4} \cdot \frac{1}{4}y = -25 \cdot \frac{4}{4}$$

$$y = -100$$

Solution: $y = -100$

3. Directions: Solve each equation. Round all decimal answers to the hundredths place.

1. $-2.1x + 8.2 = 20$

$$-2.1x + 8.2 \xrightarrow{(-8.2)} = 20 \xrightarrow{(-8.2)}$$

$$\frac{-2.1x + 8.2}{-2.1} = \frac{11.8}{-2.1}$$

$$x = \underline{-5.62}$$

Solution: $x = -5.62$

2. $\frac{1}{2}x - \frac{1}{4} = -4$

$$\frac{1}{2}x - \frac{1}{4} \xrightarrow{(+\frac{1}{4})} = -4 \xrightarrow{(+\frac{1}{4})}$$

$$\frac{1}{2}x = -3\frac{3}{4}$$

$$\frac{2}{2} \cdot \frac{1}{2}x = -3\frac{3}{4} \cdot \frac{2}{2}$$

$$x = -7\frac{1}{2}$$

Solution: $x = -7\frac{1}{2}$

3. $\frac{2}{3}x + 15 = -65$

$$\frac{2}{3}x + 15 \xrightarrow{(-15)} = -65 \xrightarrow{(-15)}$$

$$\frac{2}{3}x = -80$$

$$\frac{3}{2} \cdot \frac{2}{3}x = -80 \cdot \frac{3}{2}$$

Solution: $x = -120$

4. $-4.15x + 9 = -21.5$

$$-4.15x + 9 \xrightarrow{(-9)} = -21.5 \xrightarrow{(-9)}$$

$$\frac{-4.15x + 9}{-4.15} = \frac{-30.5}{-4.15}$$

$$x = 7.35$$

Solution: $x = 7.35$

5. $\frac{1}{2}x - 5 = \frac{1}{4}$

$$\frac{1}{2}x - 5 \xrightarrow{(+5)} = \frac{1}{4} \xrightarrow{(+5)}$$

$$\frac{1}{2}x = \frac{21}{4}$$

$$\frac{2}{2} \cdot \frac{1}{2}x = \frac{21}{4} \cdot \frac{2}{2}$$

$$x = \frac{21}{2}$$

Solution: $x = \frac{21}{2}$

6. $\frac{1}{10}x - 22.8 = -14.25$

$$\frac{1}{10}x - 22.8 \xrightarrow{(+22.8)} = -14.25 \xrightarrow{(+22.8)}$$

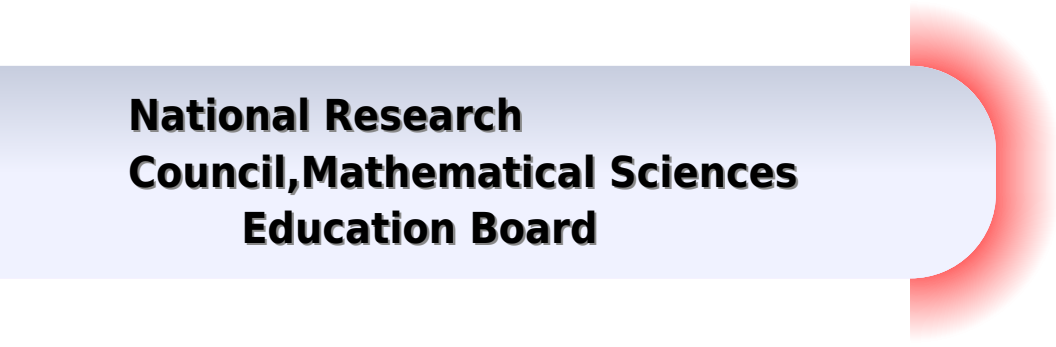
$$\frac{1}{10}x = 8.55$$

$$\frac{10}{10} \cdot \frac{1}{10}x = 8.55 \cdot \frac{10}{10}$$

Solution: $x = 85.5$

Answers For Algebra Connections Academy

**National Research
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Learning and Education Games: Volume Two: Bringing Games into Educational Contexts Karen Schrier Shaenfeld, 2016 The Learning Education Games book series is perfect for any educator or developer seeking an introduction to research driven best practices for using and designing games for learning This volume Bringing Games into Educational Contexts delves into the challenges of creating games and implementing them in educational settings This book covers relevant issues such as gamification curriculum development using games to support ASD autism spectrum disorder students choosing games for the classroom and library homeschooling and gameschooling working with parents and policymakers and choosing tools for educational game development Learning Education Games Bringing Games into Educational Contexts is the second in a series written and edited by members of the Learning Education and Games LEG special interest group of the IGDA International Game Developers Association

The academy, 1877 **Holt Algebra 1 2003** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003 *Planting the Seeds of Algebra, PreK–2* Monica Neagoy, 2012-04-20 The subject of algebra has always been important in American secondary mathematics education However algebra at the elementary level has been garnering increasing attention and importance over the past 15 years There is consequently a dire need for ideas suggestions and models for how best to achieve pre algebraic instruction in the elementary grades Planting the Seeds of Algebra will empower teachers with theoretical and practical knowledge about both the content and pedagogy of such instruction and show them the different faces of algebra as it appears in the early grades The book will walk teachers of young children through many examples of K 6 math lessons and unpack step by step the hidden connections to higher algebra After reading this book teachers will be better equipped

Library Media Connection, 2003 *Connecting Mathematics for Elementary Teachers* David Feikes, Keith Schwingendorf, Jeff Gregg, 2009 Book Jacket *Resources in Education*, 1999-10 *Journal of Education*, 1881 *High School Mathematics at Work* National Research Council, Mathematical Sciences Education Board, 1998-06-27 Traditionally vocational mathematics and precollege mathematics have been separate in schools But the technological world in which today's students will work and live calls for increasing connection between mathematics and its applications Workplace based mathematics may be good mathematics for everyone High School Mathematics at Work illuminates the interplay between technical and academic mathematics This collection of thought provoking essays by mathematicians educators and other experts is enhanced with illustrative tasks from workplace and everyday contexts that suggest ways to strengthen high school mathematical education This important book addresses how to make mathematical education of all students meaningful how to meet the practical needs of students entering the work force after high school as well as the needs of students going on to postsecondary education The short readable essays frame basic issues provide background and suggest alternatives to the traditional separation between technical and academic mathematics They are accompanied by intriguing multipart problems that illustrate how deep

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George Albert Wentworth, 1896

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