math Antics Worksheets

Name:

Date:

Solving Basic Equations with Multiplication or Division - Set 1

AB-SE2 1

Instructions: Use multiplication or division to solve each equation.

1 $\frac{4x}{4} = \frac{12}{4}$

$x = 3$

2 $(5)\frac{x}{5} = 7(5)$

$x = 35$

3 $\frac{x}{3} = 9$

4 $72 = 9x$

5 $12x = 144$

6 $10 = \frac{x}{4}$

7 $\frac{24}{x} = 6$

8 $5x = 105$

9 $\frac{x}{12} = 9$

10 $15 = \frac{75}{x}$

11 $\frac{x}{7} = 22$

12 $2x = 142$

math Antics Worksheets

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Solving Basic Equations with Multiplication or Division - Set 2

AB-SE2 2

Instructions: Use multiplication or division to solve each equation.

1 $\frac{40}{8} = \frac{8x}{8}$

$5 = x$

or $x = 5$

2 $(x)12 = \frac{48}{x}(x)$

$\frac{12x}{12} = \frac{48}{12}$

$x = 4$

3 $\frac{x}{8} = 8$

4 $11x = 66$

5 $\frac{32}{x} = 4$

6 $\frac{x}{3} = 24$

7 $6x = 78$

8 $\frac{x}{4} = 14$

9 $7 = \frac{84}{x}$

10 $65 = 5x$

11 $3x = 135$

12 $3 = \frac{x}{20}$

math Antics Worksheets

Name:

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Solving Basic Equations (with decimals)

AB-SE2 3

Instructions: Use multiplication or division to solve each equation. You can use a calculator to do the decimal arithmetic if you'd like to.

1. $5.0 = 2.5x$

2. $\frac{x}{2} = 1.6$

3. $1.5 = \frac{0.5}{x}$

4. $0.1x = 2.4$

5. $\frac{x}{2.1} = 1.6$

6. $\frac{3.5}{x} = 2.5$

7. $\frac{x}{3} = 6.4$

8. $0.2x = 0.7$

9. $8 = \frac{8.4}{x}$

10. $2.25 = 0.75x$

math Antics Worksheets

Name:

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Solving Basic Equations (with negative numbers)

AB-SE2 4

Instructions: Use multiplication or division to solve each equation.

1. $\frac{x}{5} = -6$

2. $-3x = -21$

3. $3 = \frac{-12}{x}$

4. $\frac{-28}{x} = -4$

5. $\frac{x}{-7} = 9$

6. $15x = -45$

7. $\frac{x}{-8} = -1$

8. $55 = -5x$

9. $-72 = -8x$

10. $9 = \frac{-45}{x}$

math Antics Exercises

Name:

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Solving Basic Equations - Part 2

1 Solve for x

$$3x = 6$$

2 Solve for x

$$6x = 24$$

3 Solve for x

$$60 = 12x$$

4 Solve for x

$$0.5x = 1$$

5 Solve for x

$$\frac{x}{4} = 3$$

6 Solve for x

$$\frac{x}{8} = 12$$

7 Solve for x

$$15 = \frac{x}{7}$$

8 Solve for x

$$\frac{x}{0.2} = 10$$

9 Solve for x

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

10 Solve for x

$$\frac{10}{x} = 4$$

math Antics Worksheets

Name: _____

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Solving Basic Equations with Multiplication or Division - Set 1

AB-SE2 1

Instructions: Use multiplication or division to solve each equation.

1 $\frac{4x}{4} = \frac{12}{4}$

$x = 3$

2 $(5)\frac{x}{5} = 7(5)$

$x = 35$

3 $(3)\frac{x}{3} = 9(3)$

$x = 27$

4 $\frac{72}{9} = \frac{9x}{9}$

$8 = x$

or $x = 8$

5 $\frac{12x}{12} = \frac{144}{12}$

$x = 12$

6 $(4)10 = \frac{x}{4}(4)$

$40 = x$

or $x = 40$

7 $(x)\frac{24}{x} = 6(x)$

$\frac{24}{6} = \frac{6x}{6}$

$4 = x$ or $x = 4$

8 $\frac{5x}{5} = \frac{105}{5}$

$x = 21$

9 $(12)\frac{x}{12} = 9(12)$

$x = 108$

10 $(x)15 = \frac{75}{x}(x)$

$\frac{15x}{15} = \frac{75}{15}$

$x = 5$

11 $(7)\frac{x}{7} = 22(7)$

$x = 154$

12 $\frac{2x}{2} = \frac{142}{2}$

$x = 71$

math Antics Worksheets

Name:

Date:

Solving Basic Equations with Multiplication or Division - Set 2

AB-SE2 2

Instructions: Use multiplication or division to solve each equation.

1 $\frac{40}{8} = \frac{8x}{8}$

$5 = x$

or $x = 5$

2 $(x)12 = \frac{48}{x}(x)$

$\frac{12x}{12} = \frac{48}{12}$

$x = 4$

3 $(8)\frac{x}{8} = 8(8)$

$x = 64$

4 $\frac{11x}{11} = \frac{66}{11}$

$x = 6$

5 $(x)\frac{32}{x} = 4(x)$

$\frac{32}{4} = \frac{4x}{4}$

$8 = x$ or $x = 8$

6 $(3)\frac{x}{3} = 24(3)$

$x = 72$

7 $\frac{6x}{6} = \frac{78}{6}$

$x = 13$

8 $(4)\frac{x}{4} = 14(4)$

$x = 56$

9 $(x)7 = \frac{84}{x}(x)$

$\frac{7x}{7} = \frac{84}{7}$

$x = 12$

10 $\frac{65}{5} = \frac{5x}{5}$

$13 = x$

or $x = 13$

11 $\frac{3x}{3} = \frac{135}{3}$

$x = 45$

12 $(20)3 = \frac{x}{20}(20)$

$60 = x$

or $x = 60$

math Antics Worksheets

Name: _____

Date: _____

Solving Basic Equations (with decimals)

AB-SE2 3

Instructions: Use multiplication or division to solve each equation. You can use a calculator to do the decimal arithmetic if you'd like to.

1 $\frac{5.0}{2.5} = \frac{2.5x}{2.5}$

$2 = x$

or $x = 2$

2 $(2)\frac{x}{2} = 1.6\,(2)$

$x = 3.2$

3 $(x)1.5 = \frac{0.5}{x}\,(x)$

$\frac{1.5x}{1.5} = \frac{0.5}{1.5}$

$x = 0.\overline{3}$

4 $\frac{0.1x}{0.1} = \frac{2.4}{0.1}$

$x = 24$

5 $(2.1)\frac{x}{2.1} = 1.6\,(2.1)$

$x = 3.36$

6 $(x)\frac{3.5}{x} = 2.5\,(x)$

$\frac{3.5}{2.5} = \frac{2.5x}{2.5}$

$1.4 = x$ or $x = 1.4$

7 $(3)\frac{x}{3} = 6.4\,(3)$

$x = 19.2$

8 $\frac{0.2x}{0.2} = \frac{0.7}{0.2}$

$x = 3.5$

9 $(x)\,8 = \frac{8.4}{x}\,(x)$

$\frac{8x}{8} = \frac{8.4}{8}$

$x = 1.05$

10 $\frac{2.25}{0.75} = \frac{0.75x}{0.75}$

$3 = x$

or $x = 3$

math Antics Worksheets

Name: _____

Date: _____

Solving Basic Equations (with negative numbers)

AB-SE2 4

Instructions: Use multiplication or division to solve each equation.

1 $(5)\frac{x}{5} = -6\,(5)$

$x = -30$

2 $\frac{-3x}{-3} = \frac{-21}{-3}$

$x = 7$

3 $(x)\,3 = \frac{-12}{x}\,(x)$

$\frac{3x}{3} = \frac{-12}{3}$

$x = -4$

4 $(x)\frac{-28}{x} = -4\,(x)$

$\frac{-28}{-4} = \frac{-4x}{-4}$

$7 = x$ or $x = 7$

5 $(-7)\frac{x}{-7} = 9\,(-7)$

$x = -63$

6 $\frac{15x}{15} = \frac{-45}{15}$

$x = -3$

7 $(-8)\frac{x}{-8} = -1\,(-8)$

$x = 8$

8 $\frac{55}{-5} = \frac{-5x}{-5}$

$-11 = x$

or $x = -11$

9 $\frac{-72}{-8} = \frac{-8x}{-8}$

$9 = x$

or $x = 9$

10 $(x)\,9 = \frac{-45}{x}\,(x)$

$\frac{9x}{9} = \frac{-45}{9}$

$x = -5$

math Antics
Exercises

Name:

Date:

Solving Basic Equations - Part 2

1 Solve for x

$$\frac{3x}{3} = \frac{6}{3}$$

x = 2

2 Solve for x

$$\frac{6x}{6} = \frac{24}{6}$$

x = 4

3 Solve for x

$$\frac{60}{12} = \frac{12x}{12}$$

5 = x

or x = 5

4 Solve for x

$$\frac{0.5x}{0.5} = \frac{1}{0.5}$$

x = 2

5 Solve for x

$$(4)\frac{x}{4} = 3(4)$$

x = 12

6 Solve for x

$$(8)\frac{x}{8} = 12(8)$$

x = 96

7 Solve for x

$$(7)15 = \frac{x}{7}(7)$$

105 = x

or x = 105

8 Solve for x

$$(0.2)\frac{x}{0.2} = 10(0.2)$$

x = 2

9 Solve for x

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

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

5 = x or x = 5

10 Solve for x

$$(x)\frac{10}{x} = 4(x)$$

$$\frac{10}{4} = \frac{4x}{4}$$

2.5 = x or x = 2.5

See Video for step-by-step solutions to each problem.