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

$x = 27$

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

$x = 71$

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Name:

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

$x = 64$

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 $x = 60$

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

$2 = x$

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 $x = 3$

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

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

$x = -5$