Algebra I

3-2

Solving Equations using Multiplication and Division

Solve. (pg. 104) → Get the variable on a side by itself.

1) $\frac{4x}{4} = \frac{44}{4}$

$x = 11$

$\{11\}$

5) $\frac{-8c}{-8} = \frac{72}{-8}$

$c = -9$

$\{-9\}$

9) $2\left(\frac{1}{2}x\right) = (12)2$

$x = 24$

$\{24\}$

13) $8\left(-\frac{1}{8}b\right) = (8)8$

$\frac{-b}{-1} = \frac{64}{-1}$

$b = -64$

or

$-8\left(-\frac{1}{8}b\right) = 8(-8)$

$b = -64$

$\{-64\}$

29) $\frac{1}{3}y = 2\frac{1}{3}$

$3\left(\frac{1}{3}y\right) = \left(\frac{7}{3}\right)3$

divide by bottom, multiply by top

$y = 7$

41) $\frac{2|x|}{2} = \frac{18}{2}$

$|x| = 9$

$x = \pm 9$

$\{\pm 9\}$

45) $5\left(\frac{|x|}{5}\right) = (2)5$

$|x| = 10$

$x = \pm 10$

$\{\pm 10\}$

Pg 104

2-52 even