Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Two-Step Integer Equations

Solve exactly, then round the final value to the nearest hundredth.

1. $\frac{(s + (-10))}{-5} = 7$

2. $-5 = \frac{2}{3} \times z + 5$

3. $-7 = \frac{2}{3} \times y + (-6)$

4. $10 = \frac{(6 - b)}{2}$

5. $5x + 8 = 6$

6. $-2 = \frac{2}{5} \times w + 2$

7. $\frac{(z + 6)}{8} = 13$

8. $10 = \frac{(8 - h)}{-7}$

9. $5p + 6 = 13$

10. $5k + (-5) = 10$

Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Two-Step Integer Equations

Answer Key

Solve exactly, then round the final value to the nearest hundredth.

1. $\frac{(s + (-10))}{-5} = 7$

$-\frac{1}{5}s + 2 = 7$

Rewrite each side in equivalent affine form, distributing and collecting when needed.

$-\frac{1}{5}s = 5$

Move constants by doing the same operation to both sides.

$s = -25$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (s): -25.00

$\frac{(-25 + (-10))}{-5} = 7$

Substitute the exact value into the original equation.

2. $-5 = \frac{2}{3} \times z + 5$

$-5 = \frac{2}{3}z + 5$

Rewrite each side in equivalent affine form, distributing and collecting when needed.

$-\frac{2}{3}z - 5 = 5$

Move variable terms by doing the same operation to both sides.

$-\frac{2}{3}z = 10$

Move constants by doing the same operation to both sides.

$z = -15$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (z): -15.00

$-5 = \frac{2}{3} \times (-15) + 5$

Substitute the exact value into the original equation.

3. $-7 = \frac{2}{3} \times y + (-6)$

$-7 = \frac{2}{3}y - 6$

Rewrite each side in equivalent affine form, distributing and collecting when needed.

$-\frac{2}{3}y - 7 = -6$

Move variable terms by doing the same operation to both sides.

$-\frac{2}{3}y = 1$

Move constants by doing the same operation to both sides.

$y = -\frac{3}{2}$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (y): -1.50

$-7 = \frac{2}{3} \times (-\frac{3}{2}) + (-6)$

Substitute the exact value into the original equation.

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Answer Key

Solve exactly, then round the final value to the nearest hundredth.

4. $10 = \frac{(6 - b)}{2}$

$10 = -\frac{1}{2}b + 3$

Rewrite each side in equivalent affine form, distributing and collecting when needed.

$\frac{1}{2}b + 10 = 3$

Move variable terms by doing the same operation to both sides.

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

Move constants by doing the same operation to both sides.

$b = -14$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (b): -14.00

$10 = \frac{(6 - (-14))}{2}$

Substitute the exact value into the original equation.

5. $5x + 8 = 6$

$5x = -2$

Move constants by doing the same operation to both sides.

$x = -\frac{2}{5}$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (x): -0.40

$5 \times (-\frac{2}{5}) + 8 = 6$

Substitute the exact value into the original equation.

6. $-2 = \frac{2}{5} \times w + 2$

$-2 = \frac{2}{5}w + 2$

Rewrite each side in equivalent affine form, distributing and collecting when needed.

$-\frac{2}{5}w - 2 = 2$

Move variable terms by doing the same operation to both sides.

$-\frac{2}{5}w = 4$

Move constants by doing the same operation to both sides.

$w = -10$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (w): -10.00

$-2 = \frac{2}{5} \times (-10) + 2$

Substitute the exact value into the original equation.

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Answer Key

Solve exactly, then round the final value to the nearest hundredth.

7. $\frac{(z + 6)}{8} = 13$

$\frac{1}{8}z + \frac{3}{4} = 13$

Rewrite each side in equivalent affine form, distributing and collecting when needed.

$\frac{1}{8}z = \frac{49}{4}$

Move constants by doing the same operation to both sides.

$z = 98$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (z): 98.00

$\frac{(98 + 6)}{8} = 13$

Substitute the exact value into the original equation.

8. $10 = \frac{(8 - h)}{-7}$

$10 = \frac{1}{7}h - \frac{8}{7}$

Rewrite each side in equivalent affine form, distributing and collecting when needed.

$-\frac{1}{7}h + 10 = -\frac{8}{7}$

Move variable terms by doing the same operation to both sides.

$-\frac{1}{7}h = -\frac{78}{7}$

Move constants by doing the same operation to both sides.

$h = 78$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (h): 78.00

$10 = \frac{(8 - 78)}{-7}$

Substitute the exact value into the original equation.

9. $5p + 6 = 13$

$5p = 7$

Move constants by doing the same operation to both sides.

$p = \frac{7}{5}$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (p): 1.40

$5 \times \frac{7}{5} + 6 = 13$

Substitute the exact value into the original equation.

10. $5k + (-5) = 10$

$5k - 5 = 10$

Rewrite each side in equivalent affine form, distributing and collecting when needed.

$5k = 15$

Move constants by doing the same operation to both sides.

$k = 3$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (k): 3.00

$5 \times 3 + (-5) = 10$

Substitute the exact value into the original equation.