

Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

One-Step Fraction Equations

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

1. $-2 \frac{1}{3} = n - \frac{5}{6}$

6. $\frac{9}{16} = (1\frac{1}{2})w$

2. $2\frac{1}{3} = x - (-2\frac{5}{6})$

7. $(2\frac{4}{7})c = 3\frac{3}{5}$

3. $d - 2\frac{2}{3} = -2\frac{20}{21}$

8. $3\frac{3}{4} = (2\frac{1}{4})z$

4. $m + \frac{2}{5} = \frac{11}{15}$

9. $\frac{1}{7}c = \frac{9}{35}$

5. $y + 1\frac{3}{5} = 1\frac{14}{15}$

10. $-\frac{11}{24} = k + (-\frac{5}{8})$

One-Step Fraction Equations

Answer Key

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

1. $-2 \frac{1}{3} = n - \frac{5}{6}$

$$-1 \quad n - 2\frac{1}{3} = -\frac{5}{6}$$

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

$$-1 \quad n = 1\frac{1}{2}$$

Move constants by doing the same operation to both sides.

$$n = -1 \frac{1}{2}$$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (n): -1.50

$$-2 \frac{1}{3} = -1 \frac{1}{2} - \frac{5}{6}$$

Substitute the exact value into the original equation.

2. $2\frac{1}{3} = x - (-2 \frac{5}{6})$

$$2\frac{1}{3} = x + 2\frac{5}{6}$$

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

$$-1 \quad x + 2\frac{1}{3} = 2\frac{5}{6}$$

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

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

Move constants by doing the same operation to both sides.

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

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (x): -0.50

$$2\frac{1}{3} = -\frac{1}{2} - (-2 \frac{5}{6})$$

Substitute the exact value into the original equation.

3. $d - 2\frac{2}{3} = -2 \frac{20}{21}$

$$d = -\frac{2}{7}$$

Exact value. Move constants by doing the same operation to both sides.

Rounded value (d): -0.29

$$-\frac{2}{7} - 2\frac{2}{3} = -2 \frac{20}{21}$$

Substitute the exact value into the original equation.

4. $m + \frac{2}{5} = \frac{11}{15}$

$$m = \frac{1}{3}$$

Exact value. Move constants by doing the same operation to both sides.

Rounded value (m): 0.33

$$\frac{1}{3} + \frac{2}{5} = \frac{11}{15}$$

Substitute the exact value into the original equation.

One-Step Fraction Equations

Answer Key

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

5. $y + 1\frac{3}{5} = 1\frac{14}{15}$

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

Exact value. Move constants by doing the same operation to both sides.

Rounded value (y): 0.33

$$\frac{1}{3} + 1\frac{3}{5} = 1\frac{14}{15}$$

Substitute the exact value into the original equation.

6. $\frac{9}{16} = (1\frac{1}{2})w$

$$(-1\frac{1}{2})w + \frac{9}{16} = 0$$

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

$$(-1\frac{1}{2})w = -\frac{9}{16}$$

Move constants by doing the same operation to both sides.

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

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (w): 0.38

$$\frac{9}{16} = 1\frac{1}{2} \times \frac{3}{8}$$

Substitute the exact value into the original equation.

7. $(2\frac{4}{7})c = 3\frac{3}{5}$

$$c = 1\frac{2}{5}$$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (c): 1.40

$$2\frac{4}{7} \times 1\frac{2}{5} = 3\frac{3}{5}$$

Substitute the exact value into the original equation.

8. $3\frac{3}{4} = (2\frac{1}{4})z$

$$(-2\frac{1}{4})z + 3\frac{3}{4} = 0$$

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

$$(-2\frac{1}{4})z = -3\frac{3}{4}$$

Move constants by doing the same operation to both sides.

$$z = 1\frac{2}{3}$$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (z): 1.67

$$3\frac{3}{4} = 2\frac{1}{4} \times 1\frac{2}{3}$$

Substitute the exact value into the original equation.

One-Step Fraction Equations

Answer Key

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

9. $\frac{1}{7}c = \frac{9}{35}$

$$c = 1\frac{4}{5}$$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (c): 1.80

$$\frac{1}{7} \times 1\frac{4}{5} = \frac{9}{35}$$

Substitute the exact value into the original equation.

10. $-\frac{11}{24} = k + (-\frac{5}{8})$

$$-\frac{11}{24} = k - \frac{5}{8}$$

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

$$-1 \quad k - \frac{11}{24} = -\frac{5}{8}$$

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

$$-1 \quad k = -\frac{1}{6}$$

Move constants by doing the same operation to both sides.

$$k = \frac{1}{6}$$

Exact value. Divide both sides by the nonzero coefficient.

Rounded value (k): 0.17

$$-\frac{11}{24} = \frac{1}{6} + (-\frac{5}{8})$$

Substitute the exact value into the original equation.