Answer Key

Two-Step Equations: Fractions

Solve each equation.

1) $\dfrac{7}{6}d + \dfrac{4}{3} = -\dfrac{1}{3}$

$d = -\dfrac{10}{7}$ or $-1\dfrac{3}{7}$

2) $5\dfrac{1}{2} - u = \dfrac{9}{4}$

$u = \dfrac{13}{4}$ or $3\dfrac{1}{4}$

3) $-m - \dfrac{7}{8} = -10$

$m = \dfrac{73}{8}$ or $9\dfrac{1}{8}$

4) $\dfrac{2}{7} = \dfrac{4}{5} + 9q$

$q = -\dfrac{2}{35}$

5) $2\dfrac{2}{5} = \dfrac{3}{8} + \dfrac{h}{\left(\dfrac{1}{3}\right)}$

$h = \dfrac{27}{40}$

6) $\dfrac{5}{9}c - \dfrac{3}{4} = \dfrac{7}{9}c$

$c = -\dfrac{27}{8}$ or $-3\dfrac{3}{8}$

7) $\dfrac{9}{4}\left(w - \dfrac{1}{9}\right) = \dfrac{7}{2}$

$w = \dfrac{5}{3}$ or $1\dfrac{2}{3}$

8) $\dfrac{y}{\left(\dfrac{5}{3}\right)} + 5 = 2\dfrac{5}{6}$

$y = -\dfrac{65}{18}$ or $-3\dfrac{11}{18}$

9) $-\dfrac{2}{3}p + \dfrac{8}{3} = -3p$

$p = -\dfrac{8}{7}$ or $-1\dfrac{1}{7}$

10) $-2\dfrac{1}{7}n - \dfrac{6}{7} = -1\dfrac{3}{7}$

$n = \dfrac{4}{15}$