

Lesson: Solving Equations with Fractions

Example 1

$$\frac{2x}{5} + 2 = \frac{4}{15}$$

Example 2

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

Example 3

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

Example 4

$$\frac{3}{4}(x+5) = -6$$

Example 5

$$\frac{h-4}{5} = \frac{h-3}{6}$$

Practice: Solving Equations with Fractions

a. $\frac{x}{2} + \frac{4}{5} = \frac{23}{10} - x$

b. $\frac{-1}{2}x - \frac{1}{8} = x + \frac{5}{8}$

c. $\frac{-4}{5}x + 1 = -x + \frac{9}{5}$

d. $6 = -\frac{3}{5}(a - 7)$

e. $\frac{1}{3}(p + 2) = -5$

f. $\frac{1}{3}(x + 4) = \frac{1}{5}(x + 2)$

g. $\frac{3x + 9}{5} = 12$

h. $\frac{5x + 4}{5} = \frac{5x + 13}{10}$

i. $\frac{3(s - 4)}{4} = \frac{2(s - 3)}{3}$

ANSWERS: a) $x=1$, b) $x=-0.5$, c) $x=4$, d) $a=-3$, e) $p=-17$, f) $x=-7$, g) $x=17$, h) $x=1$, i) $s=12$