The method: Equations with fractions and decimals

Multiply both sides to clear the fraction, or work with the decimals directly.

$\frac{x}{3} + 3 = 4$

$\frac{x}{3} = 1$ subtract 3 from both sides

$x = 3$ multiply both sides by 3

$1.5x + 4.2 = -6.3$

$1.5x = -10.5$ subtract 4.2 on both sides

$x = -10.5 \div 1.5 = -7$ divide both sides by 1.5

Problems 1 and 2 worked out · Version 0A

$0.2x - 5 = -4$

$0.2x = 1$ add 5 on both sides

$x = 1 \div 0.2 = 5$ divide both sides by 0.2

$\frac{x}{4} - 3 = -6$

$\frac{x}{4} = -3$ add 3 to both sides

$x = -12$ multiply both sides by 4

Equations with fractions and decimals · Version 0A

1) $x = 5$ 2) $x = -12$ 3) $x = 15$ 4) $x = -5$
5) $x = 15$ 6) $x = -20$ 7) $x = -9$ 8) $x = 9$
9) $x = -8$ 10) $x = 3$ 11) $x = 6$ 12) $x = -6$
13) $x = 4$ 14) $x = 11$ 15) $x = 5$ 16) $x = 30$
17) $x = 30$ 18) $x = -7$ 19) $x = 36$ 20) $x = 0$
21) $x = -6$ 22) $x = 30$