Answer key

The method: Two-step equations

Undo adding or subtracting first, then undo multiplying.

$-8x + 10 = 18$

$-8x = 18 - 10$ subtract 10 from both sides

$-8x = 8$

$x = -1$ divide both sides by -8

Problems 1 and 2 worked out · Version 0A

$-8x + 11 = 27$

$-8x = 27 - 11$ subtract 11 from both sides

$-8x = 16$

$x = -2$ divide both sides by -8

$3x - 8 = -17$

$3x = -17 + 8$ add 8 to both sides

$3x = -9$

$x = -3$ divide both sides by 3

Two-step equations · Version 0A

1) $x = -2$ 2) $x = -3$ 3) $x = -5$ 4) $x = 9$
5) $x = 2$ 6) $x = 5$ 7) $x = 10$ 8) $x = 0$ 9) $x = 9$
10) $x = 7$ 11) $x = 1$ 12) $x = 4$ 13) $x = 5$
14) $x = 3$ 15) $x = 9$ 16) $x = 9$ 17) $x = -7$
18) $x = -5$ 19) $x = 9$ 20) $x = -2$ 21) $x = 7$
22) $x = -3$ 23) $x = -3$ 24) $x = 0$ 25) $x = 0$
26) $x = 5$ 27) $x = 8$ 28) $x = 8$