

Solving Two-Step Equations

In the space below each question, solve for the pronumeral. Show each step in your working.
Answers involving fractions should be in simplest form.

Q.1 $14 - 2f = 10$

Q.6 $3h - 15 = 9$

Q.2 $8c + 10 = 130$

Q.7 $3e - 1 = 11$

Q.3 $14 + 6f = 26$

Q.8 $8 + 3h = 44$

Q.4 $30 - 4d = 26$

Q.9 $3h + 12 = 33$

Q.5 $37 - 7e = 23$

Q.10 $9d + 14 = 86$



Solving Two-Step Equations : Solutions

The worked solutions shown here are only one way of solving the problem. Provided each step logically follows the one before, and the correct solution is attained, alternate working out is acceptable.

Q.1 $14 - 2f = 10$
 $-2f = 10 - 14$
 $-2f = -4$
 $f = -4 \div -2$
 $f = 2$

Q.6 $3h - 15 = 9$
 $3h = 9 + 15$
 $3h = 24$
 $h = 24 \div 3$
 $h = 8$

Q.2 $8c + 10 = 130$
 $8c = 130 - 10$
 $8c = 120$
 $c = 120 \div 8$
 $c = 15$

Q.7 $3e - 1 = 11$
 $3e = 11 + 1$
 $3e = 12$
 $e = 12 \div 3$
 $e = 4$

Q.3 $14 + 6f = 26$
 $6f = 26 - 14$
 $6f = 12$
 $f = 12 \div 6$
 $f = 2$

Q.8 $8 + 3h = 44$
 $3h = 44 - 8$
 $3h = 36$
 $h = 36 \div 3$
 $h = 12$

Q.4 $30 - 4d = 26$
 $-4d = 26 - 30$
 $-4d = -4$
 $d = -4 \div -4$
 $d = 1$

Q.9 $3h + 12 = 33$
 $3h = 33 - 12$
 $3h = 21$
 $h = 21 \div 3$
 $h = 7$

Q.5 $37 - 7e = 23$
 $-7e = 23 - 37$
 $-7e = -14$
 $e = -14 \div -7$
 $e = 2$

Q.10 $9d + 14 = 86$
 $9d = 86 - 14$
 $9d = 72$
 $d = 72 \div 9$
 $d = 8$

