

## CHAPTER 6

### Equations and formulae

#### One-step equations (addition and subtraction)

Ch. 6.2, p. 79

QUESTION 1 Solve the following equations.

a  $x + 3 = 11$

---

b  $a + 9 = 25$

---

c  $y - 5 = 16$

---

d  $b + 7 = 17$

---

e  $m + 3 = 23$

---

f  $n - 9 = 21$

---

g  $k + 1 = 36$

---

h  $y + 3 = 22$

---

i  $t - 5 = 17$

---

QUESTION 2 Solve the following one-step equations.

a  $p - 3 = 15$

---

b  $x - 5 = 18$

---

c  $m - 6 = 31$

---

d  $n - 1 = 5$

---

e  $t - 4 = -7$

---

f  $a - 3 = -8$

---

g  $y + 7 = 9$

---

h  $x - 3 = 28$

---

i  $7 + a = 24$

---

j  $x + 5 = 19$

---

k  $a + 3 = 58$

---

l  $m - 1 = -10$

---

QUESTION 3 Solve these equations.

a  $a + 7 = 12$

---

b  $n + 6 = 8$

---

c  $x + 3 = 38$

---

d  $b + 5 = 15$

---

e  $p - 8 = 7$

---

f  $a + 5 = 27$

---

g  $m - 9 = 18$

---

h  $t - 2 = 23$

---

i  $y - 6 = 28$

---

j  $x - 7 = 31$

---

k  $a - 7 = 25$

---

l  $12 + x = 41$

---

### Equations and formulae

#### One-step equations (multiplication and division)

Ch. 6.2, p. 79

QUESTION 1 Solve the following one-step equations.

a  $5a = 35$

---

b  $\frac{x}{7} = 3$

---

c  $8y = 56$

---

d  $\frac{a}{3} = 8$

---

e  $\frac{y}{5} = 9$

---

f  $9x = -45$

---

g  $6m = 54$

---

h  $\frac{t}{6} = -7$

---

i  $8t = 72$

---

QUESTION 2 Solve the following equations.

a  $\frac{x}{5} = 8$

---

b  $7x = -49$

---

c  $8x = 88$

---

d  $4x = 48$

---

e  $\frac{a}{9} = -3$

---

f  $\frac{d}{5} = -5$

---

g  $9x = -36$

---

h  $\frac{a}{7} = 9$

---

i  $11x = 121$

---

QUESTION 3 Solve these equations.

a  $3b = 21$

---

b  $-7x = -49$

---

c  $\frac{p}{-9} = 8$

---

d  $\frac{y}{3} = -6$

---

e  $\frac{m}{6} = -4$

---

f  $7x = -42$

---

g  $5b = -125$

---

h  $-2x = -18$

---

i  $\frac{t}{-2} = 12$

---

j  $\frac{y}{7} = 12$

---

k  $\frac{n}{8} = 4$

---

l  $-6x = 54$

---