#### 10 Solving equations

#### 10.1 Solving linear equations

#### Exercise 10A

1 **a** 
$$x = 6$$
 **b**  $y = 3$  **c**  $t = 4$  **d**  $f = 2\frac{1}{2}$  **e**  $k = 3\frac{1}{2}$   
**f**  $x = 2\frac{1}{2}$  **g**  $m = 56$  **h**  $x = 0$  **i**  $h = -7$  **j**  $m = -18$   
**k**  $x = 36$  **l**  $y = 36$  **m**  $x = 7$  **n**  $y = 1$  **o**  $x = 11.5$   
**p**  $t = 0.2$   
2 **a**  $x = 3$  **b**  $x = 7$  **c**  $t = 5$  **d**  $x = 1\frac{1}{2}$  **e**  $y = 2\frac{1}{2}$   
**f**  $k = \frac{1}{2}$  **g**  $x = -1$  **h**  $t = -2$  **i**  $x = -2$ 

- 3 Any values that work, e.g.  $\alpha = 2$ , b = 3 and c = 30.
- 4 a x = 2 b y=1 c  $\alpha=7$  d k=-1 c m=3 f 5 a d = 6 b x = 11 - cy = 1 - dh = 4e b = 9 f c = 6
- 6 6x + 3 = 6x + 10; 6x 6x = 10 3; 0 = 7, which is obviously false. Both sides have 6x, which cancels out.
- Check students' examples.

#### Exercise 10B

- 5 9 years
- 6 3 cm
- 7
- **a** 4x + 40 = 180 **b**  $x = 35^{\circ}$
- b \$37.50
- 10 No. as x + x + 2 + x + 4 + x + 6 = 360 gives  $x = 87^{\circ}$  so the consecutive numbers (87, 89, 91, 93) are not even but odd.
- 11 4x + 18 = 3x + 1 + 50, x = 33. Large bottle 1.5 litres, small bottle 1 litre

#### Exercise 10C

1 a 
$$x = 7$$
 b  $x = 9$  c  $x = 14$  d  $x = 5$  e  $x = 2.5$  f  $x = -2$   
2 a  $x = 3$  b  $x = 6$  c  $x = 2$  d  $x = 5$  e  $x = \frac{3}{4}$  f  $x = 3$   
3 a  $x = 6$  b  $x = 14$  c  $x = 7$   
4 5.6 and 7

- 50, 55 and 75 degrees

#### Exercise 10D

- 1 = -2, -5
- 2 = -3, -13 -6. -4

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**Peter Francis, Sarah Collins** 

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