1
  a $x + 6 = 14; x = 8$
  b $x - 8 = 17; x = 25$
  c $4x = 28; x = 7$
  d $\dfrac{x}{2} = {}^-4; x = {}^-8$
  e $10 - x = 13; x = {}^-3$

2
  a $3x + 4 = 22$
  b $x = 6$

3
  a $2x - 8 = 12$
  b $x = 10$

4
  a $x + 10$
  b $x + x + 10 = 70$
  c $x = 30$ cm
  d 40 cm

5
  a (B) $3x + 6 = 45$
  b $x = 13$

6
  a $2x - 5 = 11$
  b $x = 8$

7
  a $2x - 10 = 100$
  b $x = 55$ kg

8
  a 43 and 45
  b One following after the other.
  c $x + x + 1 + x + 2 = 24$
    $3x + 3 = 24$
  d $x = 7$

9
  a $3x + 120 = 360$
  b $x = 80°$

10 $90x + 40 = 175; x = 1.5$,
  i.e. an hour and a half.

11
  a
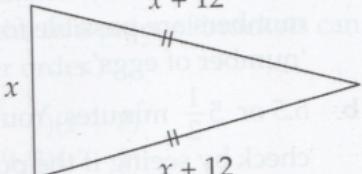
  b $x + x + 12 + x + 12 = 42$
    $3x + 24 = 42$
  c $x = 6$
  d 18 cm

12
  a $n = 14$
  b It is the number of days a large-size car can be hired.
  c $17p + 60 = 1250; p = 70$, that is, the rate for hiring a medium-size car is $70 per day.

13 $35n + 90 = 1000; n = 26$

14
  a $6x + 22 = 100$
  b $x = \$13$

15 $8x - 30 = 240; x = \$33.75$

16
  a \$416
  b $6x + 152 = 344; x = 32$
  c More than \$13.60.