

- (a) Adrian has x pence.
Cheryl has 10 pence more than Adrian.
Write down, in terms of x , the number of pence that Cheryl has.
 $x+10$ [1]
- (b) A shirt has 8 buttons.
Write down, in terms of y , the number of buttons on y shirts.
 $8y$ [1]
- (c) A ruler is r cm long.
Write down, in terms of r , the length of a line which is 6 cm shorter than the length of the ruler.
 $r-6$ [1]

- (a) Stan's printer prints 8 copies per minute.
Julia's printer prints 11 copies per minute.
Stan's printer prints for x minutes.
(i) Write down, in terms of x , the number of copies that Stan's printer prints in these x minutes.
 $8x$ [1]
- (ii) Julia's printer prints for 4 minutes less than Stan's printer.
Write down, in terms of x , the number of minutes for which Julia's printer prints.
 $x-4$ [1]
- (iii) Write down, in terms of x , the number of copies that Julia's printer prints.
 $11(x-4) = 11x-44$ [1]

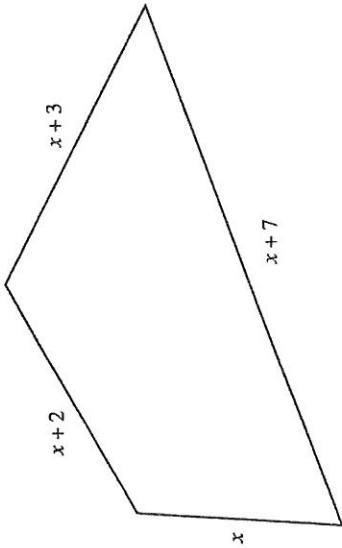
- (a) Peter buys x sweets and Mary buys 6 sweets.
Write down, in terms of x , the total number of sweets they buy.
 $x+6$ [1]
- (b) Rulers cost 25 pence each.
Write down, in terms of y , the cost of y rulers.
 $25y$ [1]
- (c) A car is b metres long and a second car is 2 metres shorter than it.
Write down, in terms of b , the length of the second car.
 $b-2$ [1]

- (4) (a) A number is represented by the letter k .
Write down, in terms of k ,
(i) the number that is 5 more than k ,
 $k+5$
(ii) the number that is 4 less than k ,
 $k-4$
(iii) the number that is 3 times k ,
 $3k$
(iv) the number that is 7 more than 10 times k .
 $10k+7$ [4]

- (5) (a) Jack has x pence.
Jill has 8 pence less than Jack.
Write down, in terms of x , the number of pence that Jill has.
 $x-8$ [1]
- (b) A box weighs 70 grams.
Write down, in terms of b , the weight of b boxes.
 $70b$ [1]

- (6) The length of a piece of wood is $2x+1$ centimetres.
A second piece of wood is $3x$ centimetres longer than the first piece of wood.
Write down in terms of x the length of the second piece of wood.
Length = centimetres
 $2x+1+3x$
 $= 5x+1$ [1]

The diagram shows a quadrilateral.
The lengths of the sides are all given in centimetres.



(a) Write an expression for the perimeter of the quadrilateral in terms of x .

$$x + x + 2 + x + 3 + x + 7 = 4x + 12$$

[1]

(b) (i) The perimeter of the quadrilateral is 40 cm.
Write down an equation in terms of x .

$$4x + 12 = 40$$

(ii) Solve the equation.

$$4x = 40 - 12$$

$$4x = 28$$

$$x = 28 \div 4 = 7$$

[2]

(c) Write down the lengths of the four sides of the quadrilateral.

7, 9, 10, 14

[1]