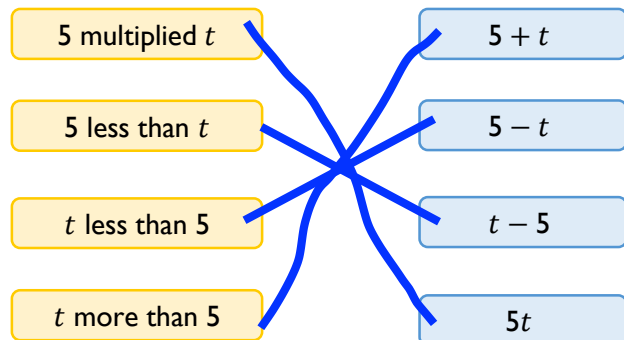


Name \_\_\_\_\_

- 1 Match each statement with the correct expression.



- 2 Complete the identity.

$$3(m + 2) \equiv \underline{3}m + \underline{6}$$

You may use the bar model to help you.

$m + 2$		$m + 2$		$m + 2$	
$m$	2	$m$	2	$m$	2
$m$	$m$	$m$	2	2	2

Expand  $5(3y + 8)$

$$\underline{15y+40}$$

- 3 Expand and simplify.

$$6(2q - 1) - 4(3 + 2q)$$

$$\underline{9q-18}$$

☐  
2 marks

Expand  $3f(f - 9)$

$$\underline{3f^2 - 27f}$$

☐  
1 mark

- 4 Solve  $2x - 7 = 23$

$$\underline{x=15}$$

☐  
2 marks

- 5 Factorise  $8x + 20$

$$\underline{4(2x + 50)}$$

☐  
1 mark

Factorise fully  $12c + 9cd$

$$\underline{3c(4+3d)}$$

☐  
2 marks

☐  
2 marks

☐  
1 mark

☐  
1 mark

- 6 Solve the inequality.

$$17 \geq 2x - 5$$

$$\leq 11$$

- 7 A coffee costs  $x$  pence.

A tea costs 20 pence less than a coffee.

Write an expression, in terms of  $x$ , for the cost of a tea.

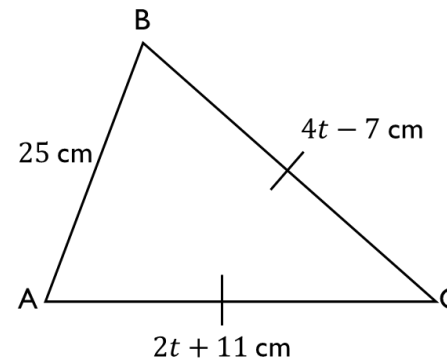
$$20 \text{ pence}$$

Write an expression, in terms of  $x$ , for the total cost of 3 coffees and 2 teas.

$$5x - 40$$

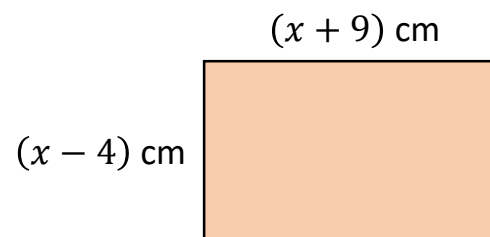
- 8 Triangle ABC is an isosceles triangle.

Form and solve an equation to find the value of  $t$ .



$$t = 9$$

- 9 Find an expression for the area of this rectangle, giving your answer in the form  $ax^2 + bx + c$ .



$$x^2 + 5x - 36 \text{ cm}^2$$

Total marks

B