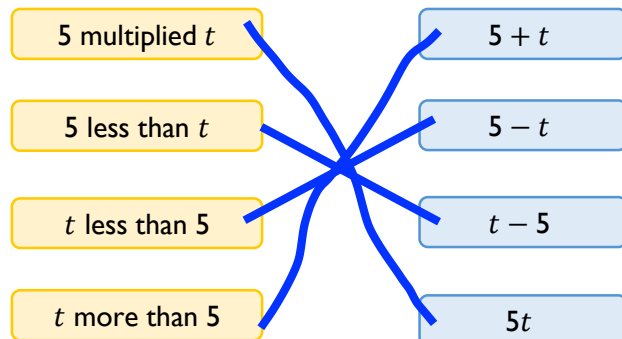


Name _____

- 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.

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

$$\underline{4q - 18}$$

☐
2 marks

Expand $3f(f - 9)$

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

☐
1 mark

- 4 Solve $2x - 7 = 23$

$$\underline{x = 15}$$

☐
2 marks

- 5 Factorise $8x + 20$

$$\underline{4(2x + 5)}$$

☐
1 mark

Factorise fully $12c + 9cd$

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

☐
2 marks

☐
2 marks

☐
1 mark

☐
1 mark

- 6 Solve the inequality.

$$17 \geq 2x - 5$$

$$x \leq 11$$



2 marks

- 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.

$$x - 20 \text{ pence}$$



1 mark

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

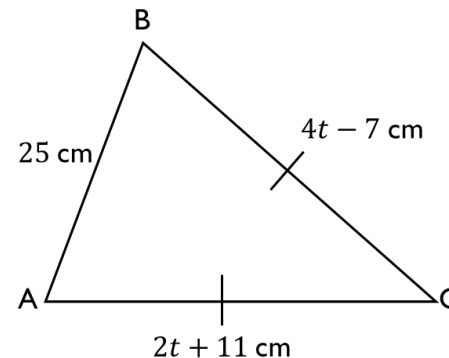
$$5x - 40$$



1 mark

- 8 Triangle ABC is an isosceles triangle.

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

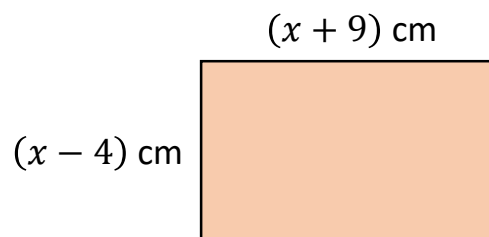


$$t = 9$$



2 marks

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



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



2 marks

Total marks



B