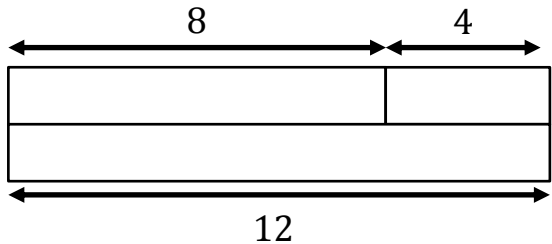


Name \_\_\_\_\_

1 Complete the fact family for this bar model.



$8 + 4 = 12$

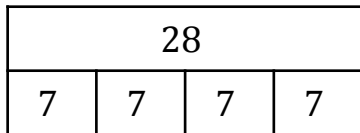
\_\_\_\_\_

\_\_\_\_\_



2 marks

2 Complete the fact family for this bar model.



$4 \times 7 = 28$

\_\_\_\_\_

\_\_\_\_\_



2 marks

3 Solve these equations.

$a + 37 = 83$

$a =$  \_\_\_\_\_



1 mark

$24 = b - 7.6$

$b =$  \_\_\_\_\_



1 mark

$\frac{c}{9} = 40$

$c =$  \_\_\_\_\_



1 mark

$60 = 5d$

$d =$  \_\_\_\_\_



1 mark

4 Make up an equation which has solution  $x = 7$



1 mark

- 5 Sam thinks of a number.  
She subtracts 87 from his number and gets the answer 254  
Show this information as an equation.

Solve the equation to find Sam's number.

- 6 Sort the following into two sets of like terms.

$5x$   $-5$   $x$   $5$   $2x$   $-5x$

Set 1

Set 2

- 7 Tick the expressions that are equivalent to  $5b$ .

$5 + b$

$3b + 2b$

$6b - b$

$5 \times b$

$b + b + b + b + b$

$b \div 5$

1 mark

1 mark

2 marks

2 marks

- 8 Simplify these expressions by collecting like terms.

$4x + 3x - 2x$  \_\_\_\_\_

$5c + 3d + 2d + 8d$  \_\_\_\_\_

$8t + 2t^2 - 3t + 2t^2$  \_\_\_\_\_

3 marks

- 9 An expression has four terms.  
When simplified, the expression becomes  $6x + 3$   
What might the expression be?

1 mark

- 10 Tim says that the following expressions are equivalent to each other.

$2n + 5$

$5 + 2n$

Is Tim correct? Explain your answer.

1 mark

Total marks