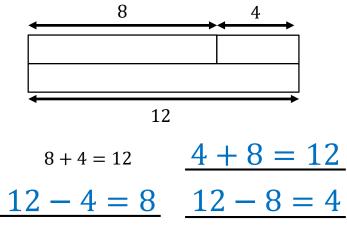
Year 7 Equality and Equivalence

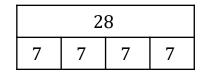
Answers

(2)

• Complete the fact family for this bar model.



Complete the fact family for this bar model.



 $4 \times 7 = 28$ $7 \times 4 = 28$ $28 \div 4 = 7$ $28 \div 7 = 4$

3 Solve these equations.

a + 37 = 83

White

Rose

Maths

2 marks

2 marks

(4)

24 = b - 7.6

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

60 = 5d

12

360

Make up an equation which has solution x = 7

d =

c =

a = **46**

b = **31.6**

Any equation with solution x = 7. e.g. $3x = 21, x - 7 = 0, \frac{x}{2} = 14, 3 = 10 - x$ etc.



I mark

Sam thinks of a number. 8 Simplify these expressions by collecting like She subtracts 87 from his number and gets the terms. answer 254 5x4x + 3x - 2xShow this information as an equation. x - 87 = 254 or equivalent 5c + 13d5c + 3d + 2d + 8dI mark Solve the equation to find Sam's number. $4t^2 + 5t$ $8t + 2t^2 - 3t + 2t^2$ x = 341(9) An expression has four terms. When simplified, the expression becomes 6x + 3I mark What might the expression be? Sort the following into two sets of like terms. Any four-term expression that simplifies to 6x + 3e.g. 4x + 2x + 5 - 2, 10x - 2x - 2x + 3-5 -5x5x2x5 X Tim says that the following expressions are Set I Set 2 5x-5xequivalent to each other. 5 -5 2x5 + 2n2n + 52 marks Is Tim correct? Explain your answer. Tick the expressions that are equivalent to 5b. e.g. Yes, addition is commutative or Yes, it does not matter which order the 3b + 2b5 + b6*b* – *b* terms are in etc. b+b+b+b+b*b* ÷ 5 $5 \times b$ 2 marks

Allow one mark for 3 correct

Total marks

3 marks

I mark

I mark