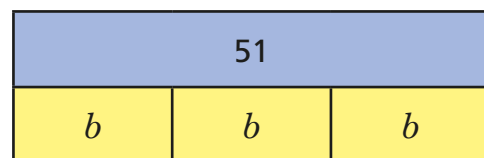


# Solve one-step linear equations involving $\times/\div$ using inverse operations

- 1 a) Complete the fact family for the bar model.



$$b \times \square = 51$$

$$3 \times \square = 51$$

$$51 \div \square = 3$$

$$51 \div \square = b$$

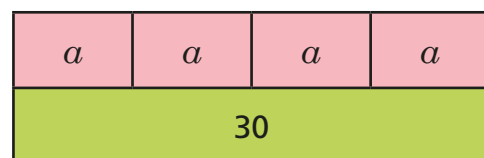
- b) Which fact will help you work out the value of  $b$ ?

Tick your answer.

- c) Work out the value of  $b$ .

$$b = \square$$

- 2 a) Write the fact family for the bar model.




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- b) What is the value of  $a$ ?

$$a = \square$$

- 3 a) Draw a bar model to illustrate  $5c = 105$

- b) Write the fact family for your bar model.

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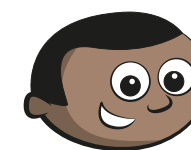


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- c) What is the value of  $c$ ?

$$c = \square$$

- 4 Mo is solving the equation  $10a = 2$



The value of  $a$  is 5

Explain why Mo is wrong.

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What is the correct value of  $a$ ?

$$a = \square$$

5 Solve the equations.

a)  $4g = 24$

$g =$

b)  $186 = 5h$

$h =$

c)  $6k = 19.8$

$k =$

d)  $6 = 20p$

$p =$

6 Teddy is solving the equation  $4a = 3,824$

He thinks the value of  $a$  is 1,412

a) Without solving the equation, explain why Teddy is incorrect.

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b) What is the value of  $a$ ?

$a =$

7 Circle the calculation you can use to find out the value of  $e$ .

$e$			
7	7	7	7

$\frac{e}{4} = 7$

$4 \times 7 = e$



8 Amir and Ron are solving the equation  $\frac{a}{3} = 30$

Amir thinks the value of  $a$  is 90

Ron thinks the value of  $a$  is 10

Who is correct? \_\_\_\_\_

Explain your answer.

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9 Solve the equations.

a)  $\frac{n}{4} = 12$

$n =$

b)  $10 = \frac{m}{15}$

$m =$

c)  $\frac{27}{p} = 9$

$p =$

d)  $7 = \frac{210}{y}$

$y =$

10 What is the same and what is different about these equations?

$\frac{n}{10} = 5$

$\frac{10}{n} = 5$

