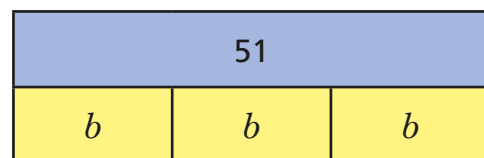


Solve one-step linear equations involving $\times/\div$ using inverse operations

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



$$b \times \boxed{3} = 51$$

$$3 \times \boxed{b} = 51$$

$$51 \div \boxed{b} = 3$$

$$51 \div \boxed{3} = b \quad \checkmark$$

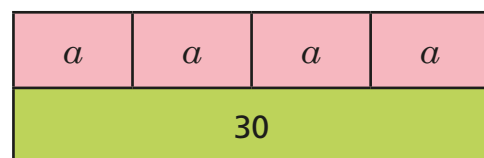
- b) Which fact will help you work out the value of b ?

Tick your answer.

- c) Work out the value of b .

$$b = \boxed{17}$$

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



$$a \times 4 = 30$$

$$4 \times a = 30$$

$$30 \div 4 = a$$

$$30 \div a = 4$$

- b) What is the value of a ?

$$a = \boxed{7.5}$$

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



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

$$5 \times c = 105 \quad 105 \div 5 = c$$

$$c \times 5 = 105 \quad 105 \div c = 5$$

- c) What is the value of c ?

$$c = \boxed{15}$$

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



The value of a is 5

Explain why Mo is wrong.

$$10 \times 5 = 50 \neq 2$$

What is the correct value of a ?

$$a = \boxed{0.2}$$

5 Solve the equations.

a) $4g = 24$

$g = 6$

b) $186 = 5h$

$h = 37.2$

c) $6k = 19.8$

$k = 3.3$

d) $6 = 20p$

$p = \frac{3}{10}$

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.

$1,412 \times 4 > 4,000$

b) What is the value of a ?

$a = 956$

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? Amir

Explain your answer.

$90 \div 3 = 30$

9 Solve the equations.

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

$n = 48$

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

$m = 150$

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

$p = 3$

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

$y = 30$

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

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

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