

# Division using factors

1 Complete the divisions using factors.

a)



$$260 \div 20 = \boxed{\phantom{00}}$$

b)



$$360 \div 30 = \boxed{\phantom{00}}$$

c)



$$240 \div \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

d)



$$480 \div \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

2 Jack and Rosie are calculating  $816 \div 48$

Jack divides by 8 and then by 6

Rosie divides by 12 and then by 4

a) Show that they get the same answer.

b) Explain why Jack and Rosie get the same answer.

---

---

c) Which is the easiest method? Why?

---

---

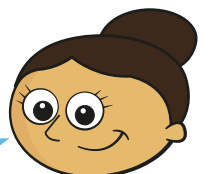
3 Mo and Dora are calculating  $2,560 \div 16$



Mo

I will  
divide by 10, then  
divide by 6

I will divide  
by 4, then divide  
by 4 again.



Dora

Who is correct? Show your workings.

\_\_\_\_\_ is correct.

4 Ron is calculating  $3,024 \div 36$

**a)** Tick the methods that would give the correct answer.

$$3,024 \div 6 \div 6$$

$$3,024 \div 18 \div 18$$

$$3,024 \div 9 \div 4$$

**b) What other methods could Ron use to calculate  $3,024 \div 36$ ?**

**5** Use factors to complete these divisions.

a)  $360 \div 40 =$

[illegible]

b)  $625 \div 25 =$

[illegible]

c)  $1,275 \div 15 =$

[illegible]

d)  $7,200 \div 18 =$

[illegible]

**6** These divisions give the same answer.

Fill in the gaps.

$$888 \div 8 \div 3$$

$888 \div 6 \div$

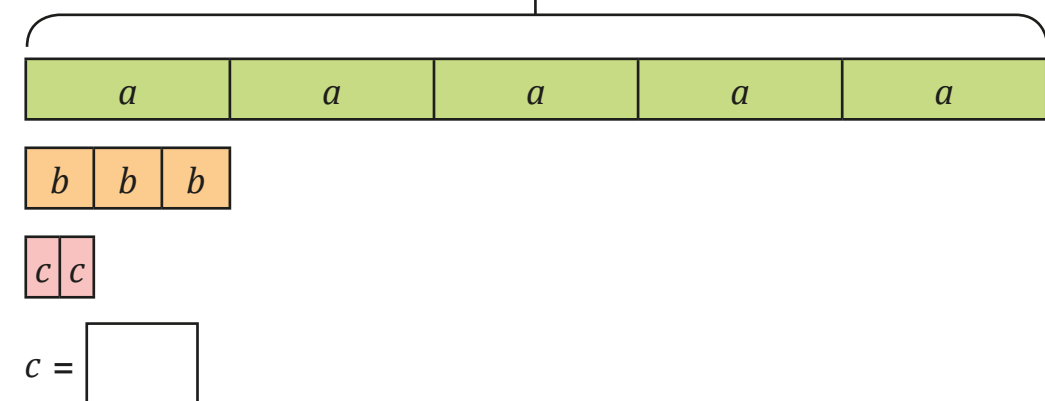
$888 \div$

$888 \div 2 \div 6 \div$

What is the answer?

**7** a) Calculate the value of  $c$ .

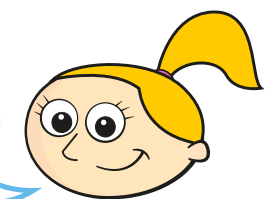
9,180



**b)** How did you work this out? Compare methods with a partner.

8 Eva is thinking of a number.

I multiply it by 6,  
then multiply the answer  
by 8, then subtract 500.  
The result is 9,100



What number did Eva start with?