

Division using factors

1 Complete the divisions using factors.

a)



$$260 \div 20 = \square$$

b)



$$360 \div 30 = \square$$

1**c)**

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

d)

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

2

Jack and Rosie are working out $816 \div 48$

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 easier method? Why?

3

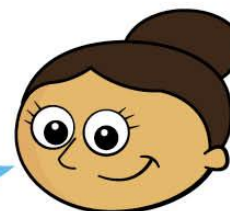
Mo and Dora are working out $2,560 \div 16$



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 working out $3,024 \div 36$

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 work out $3,024 \div 36$?

5

Use factors to complete the divisions.

a) $360 \div 40 =$

b) $625 \div 25 =$

5

c) $1,275 \div 15 =$

d) $7,200 \div 18 =$

6

These divisions give the same answer.

a) Fill in the missing numbers.

$$888 \div 8 \div 3$$

$$888 \div 6 \div \square$$

$$888 \div \square$$

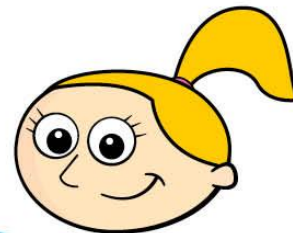
$$888 \div 2 \div 6 \div \square$$

b) What is the answer?

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?

