

# Divide a 3-digit number by a 1-digit number

1 Max is using a place value chart to work out  $844 \div 4$

H	T	O
100 100	10	1
100 100	10	1
100 100	10	1
100 100	10	1

a) Talk about Max's method with a partner.

b) Complete the division.

$$844 \div 4 = \square$$

2 Work out the divisions.

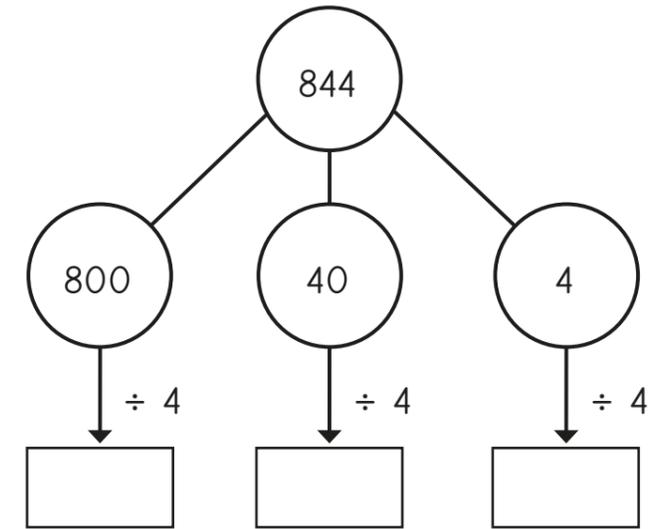
a)  $525 \div 5 = \square$

c)  $840 \div 8 = \square$

b)  $636 \div 6 = \square$

d)  $903 \div 3 = \square$

3 Eva is using a part-whole model to work out  $844 \div 4$



$$844 \div 4 = \square + \square + \square$$

a) Complete Eva's workings.

b) Complete the division.

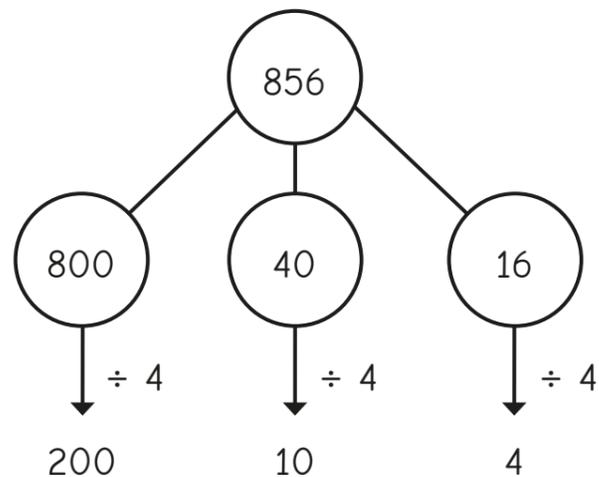
$$844 \div 4 = \square$$

4 A ball of string is 848 cm long.

It is cut into 4 equal pieces.

What is the length of one piece of string?

- 5 Whitney is using flexible partitioning to divide a 3-digit number.



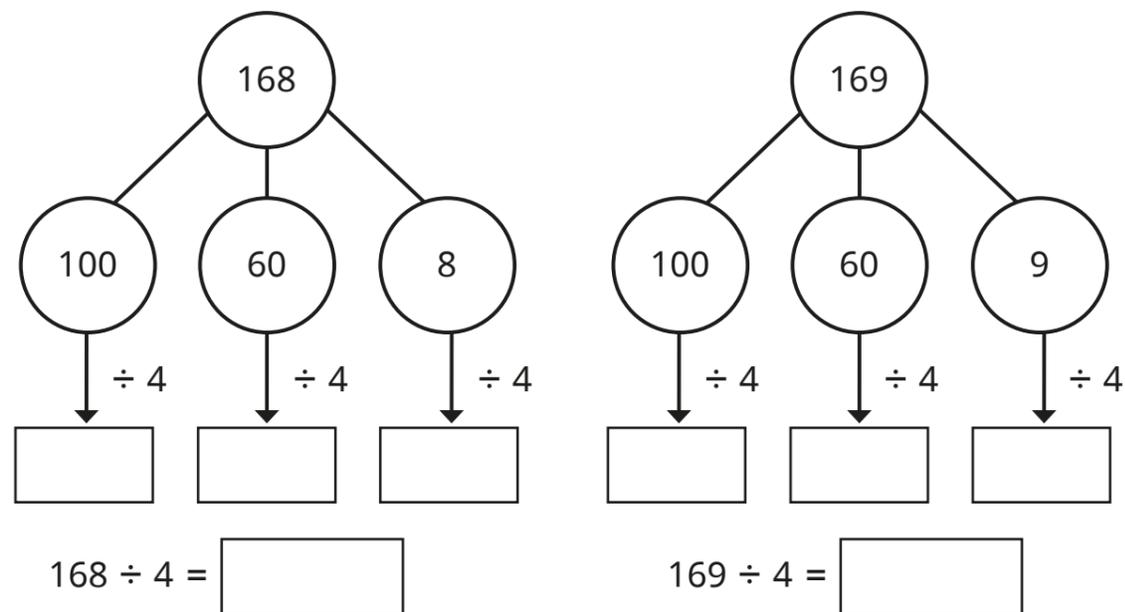
Could Whitney have partitioned the number another way?



- 6 Work out the divisions.

a)  $585 \div 5 = \square$       c)  $648 \div 4 = \square$   
 b)  $672 \div 6 = \square$       d)  $847 \div 7 = \square$

- 7 Complete the part-whole models and divisions.



What is the same and what is different about the calculations?  
 Talk about it with a partner.



- 8 Complete the divisions.

a)  $258 \div 6 = \square$       c)  $864 \div 4 = \square$   
 b)  $623 \div 5 = \square$       d)  $824 \div 3 = \square$

- 9 Eva has a piece of ribbon.  
 The ribbon is 839 cm long.



- a) Work out how much ribbon would be left over if she cut it into:

- 4 equal pieces
- 6 equal pieces
- 8 equal pieces




- b) Can Eva cut the ribbon into equal pieces with no ribbon left over? \_\_\_\_\_

Explain your answer.

