

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.

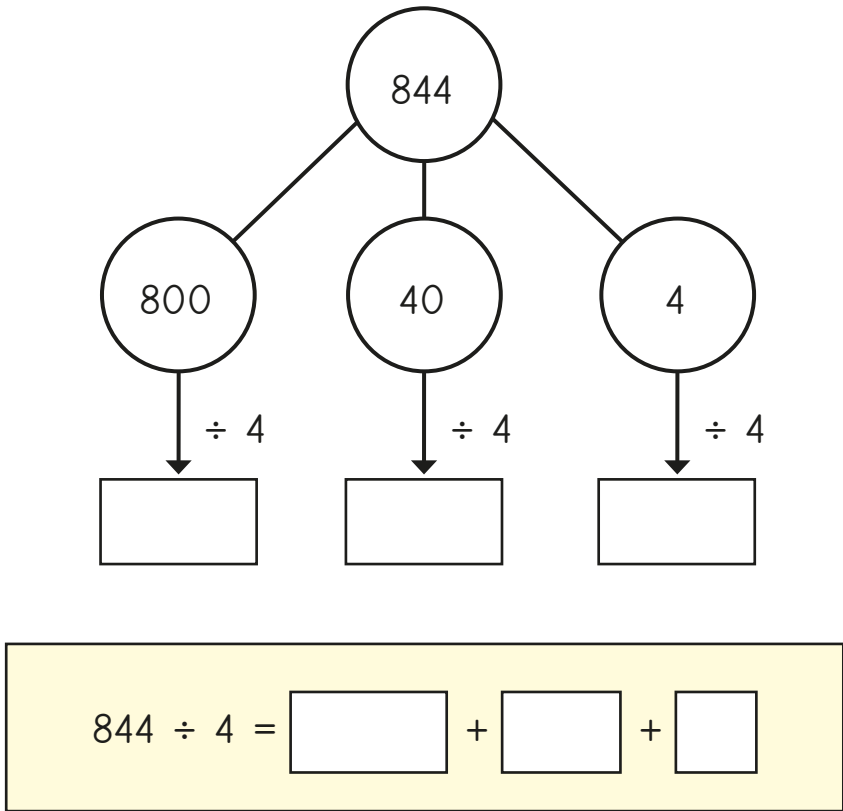
$844 \div 4 =$

2 Work out the divisions.

a) $525 \div 5 =$ c) $840 \div 8 =$

b) $636 \div 6 =$ d) $903 \div 3 =$

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

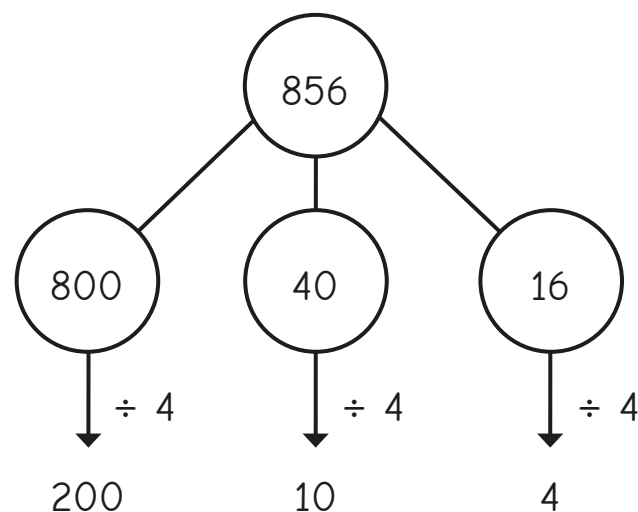


- a) Complete Eva’s workings.
- b) Complete the division.

$844 \div 4 =$

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.



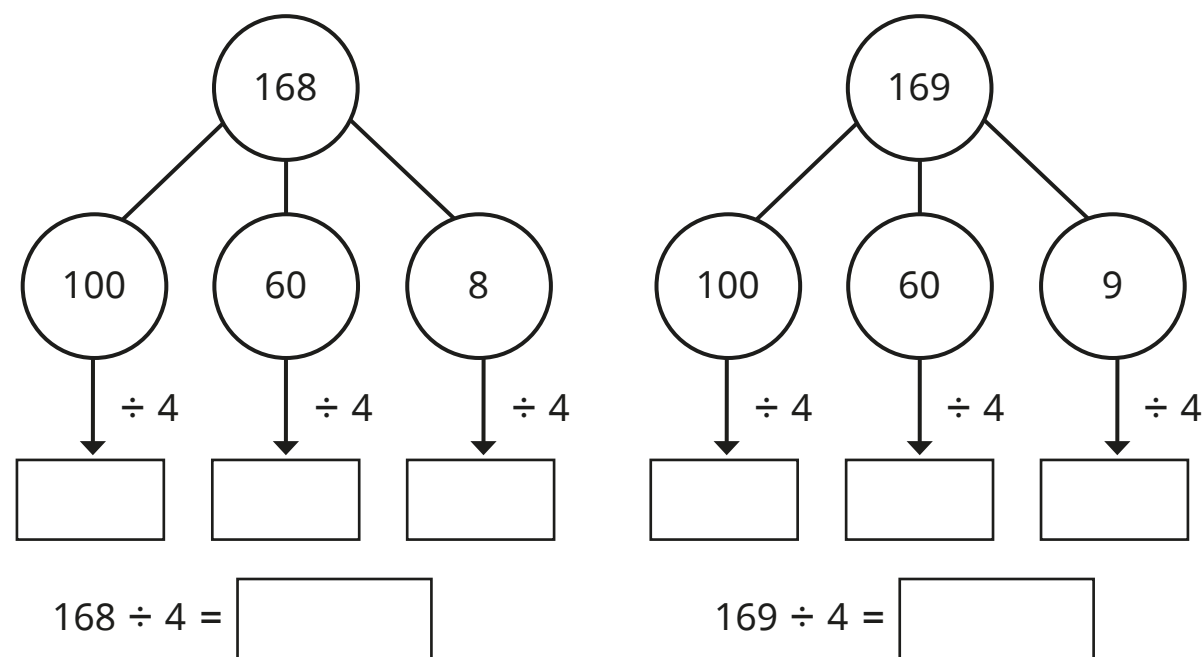
Could Whitney have partitioned the number another way?

- 6 Work out the divisions.

a) $585 \div 5 =$ c) $648 \div 4 =$

b) $672 \div 6 =$ d) $847 \div 7 =$

- 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) $258 \div 6 =$

c) $864 \div 4 =$

b) $623 \div 5 =$

d) $824 \div 3 =$

- 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.
