

Divide 3-digits by 1-digit

1 Jack is working out $844 \div 4$ using a place value chart.

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

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

b) Complete the division.

$$844 \div 4 = \square$$

2 Use Jack's method to work out these divisions.

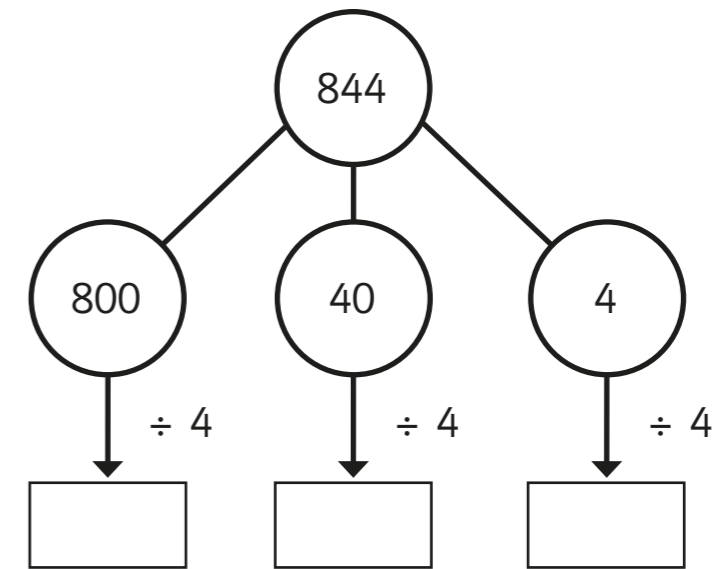
a) $525 \div 5 = \square$

c) $840 \div 8 = \square$

b) $636 \div 6 = \square$

d) $903 \div 3 = \square$

3 Eva is working out $844 \div 4$ using a part-whole model.



Complete Eva's method.

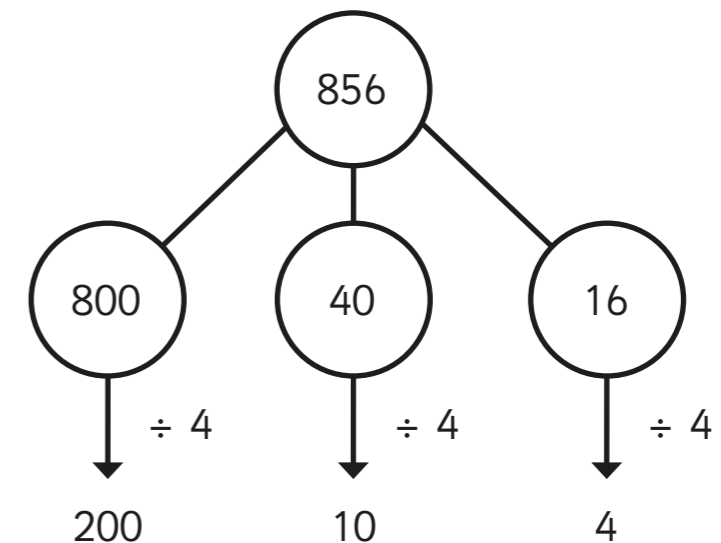
$$844 \div 4 = \square$$

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 her number another way?

Use Whitney's method to work out these divisions.

a) $585 \div 5 =$

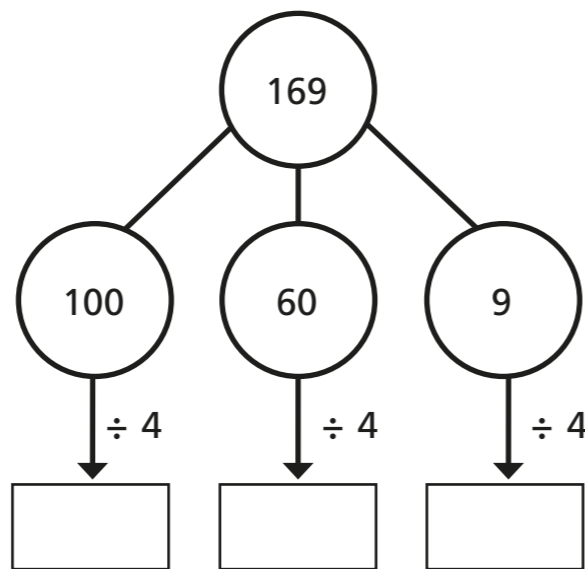
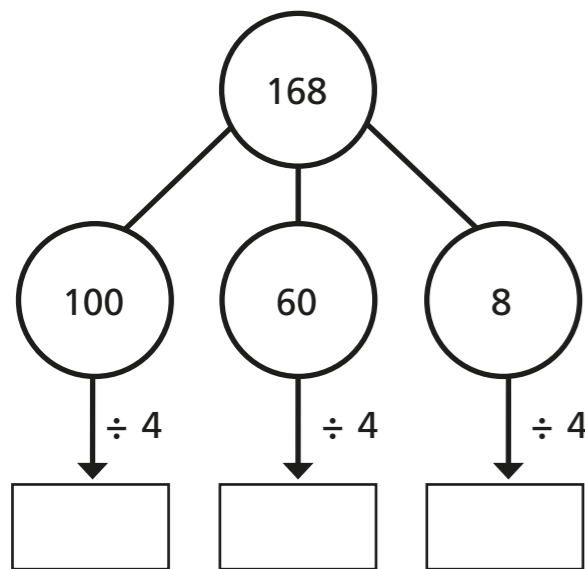
c) $648 \div 4 =$

b) $672 \div 6 =$

d) $847 \div 7 =$



6 Complete the part-whole models and divisions.



$168 \div 4 =$

$169 \div 4 =$

What is the same and what is different about the calculations?

Talk about it with a partner.



7 Complete the divisions.

a) $258 \div 6 =$

c) $864 \div 4 =$

b) $623 \div 5 =$

d) $824 \div 3 =$

8 Eva has a piece of ribbon.



The ribbon measures 839 cm long.

How much ribbon would be left over if she cuts it into:

a) 4 equal pieces

b) 6 equal pieces

c) 8 equal pieces

Can Eva cut the ribbon into equal pieces with no ribbon left over?

Explain your answer.

9 Use 15 counters and a place value chart.

a) Can you make a number that is divisible by 3?

b) Can you make a number that has a remainder of 1 when divided by 3?

c) Can you make a number that has a remainder of 2 when divided by 3?

What do you notice? Talk about your findings with a partner.

