

# 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.

$$844 \div 4 = \boxed{211}$$

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

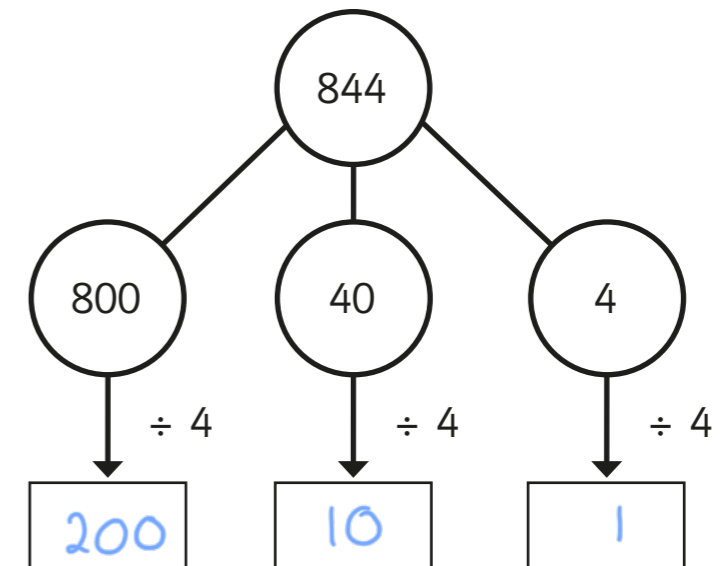
a)  $525 \div 5 = \boxed{105}$

c)  $840 \div 8 = \boxed{105}$

b)  $636 \div 6 = \boxed{106}$

d)  $903 \div 3 = \boxed{301}$

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



Complete Eva's method.

$$844 \div 4 = \boxed{211}$$

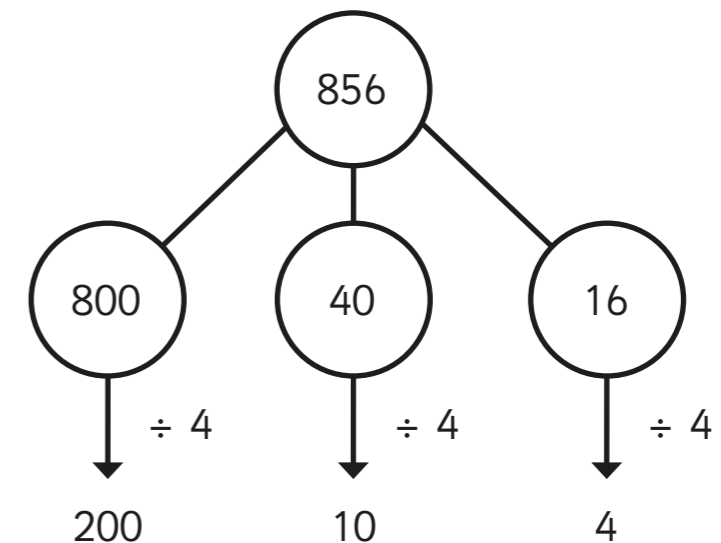
4 A ball of string is 848 cm long.

It is cut into 4 equal pieces.

What is the length of one piece of string?

$$\boxed{212\text{cm}}$$

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)  $585 \div 5 =$  117

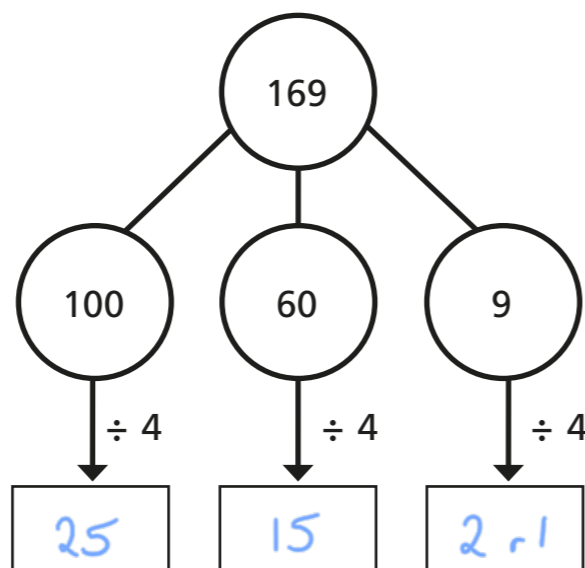
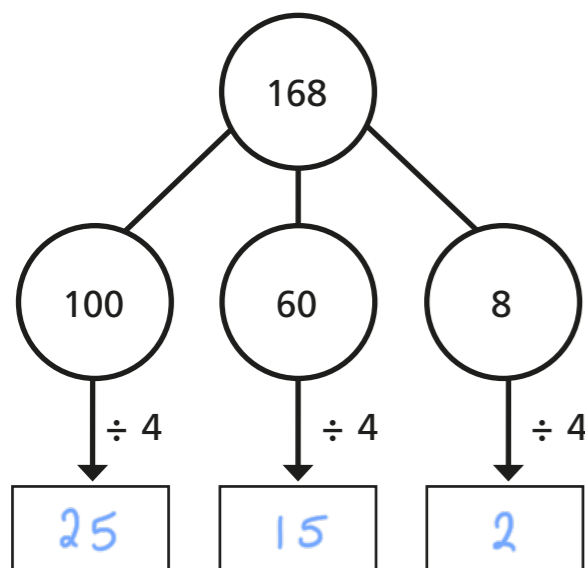
c)  $648 \div 4 =$  162

b)  $672 \div 6 =$  112

d)  $847 \div 7 =$  121



6 Complete the part-whole models and divisions.



$168 \div 4 =$  42

$169 \div 4 =$  42 r 1

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

3 cm

b) 6 equal pieces

5 cm

c) 8 equal pieces

7 cm

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

Yes

Explain your answer. *839 pieces each 1 cm long.*

9 Use 15 counters and a place value chart.

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

b) Can you make a number that has a remainder of 1 when divided by 3? no

c) Can you make a number that has a remainder of 2 when divided by 3? no

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

