

# 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

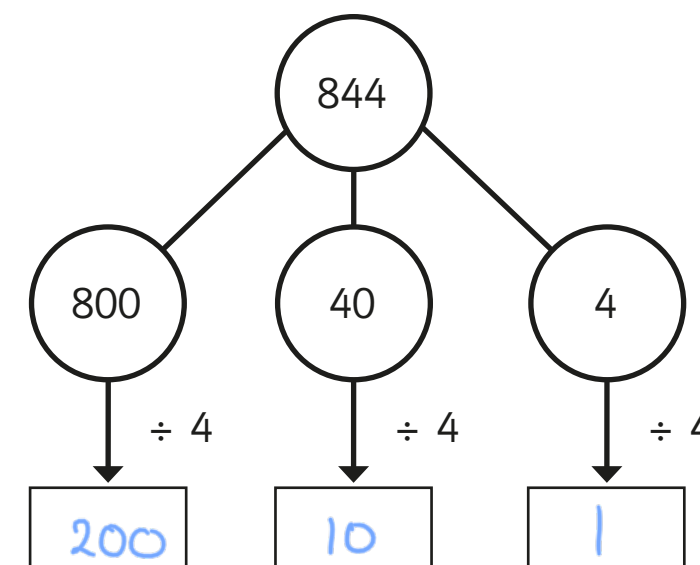
- a) Talk about Jack's method with a partner.  
b) Complete the division.

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

- 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.



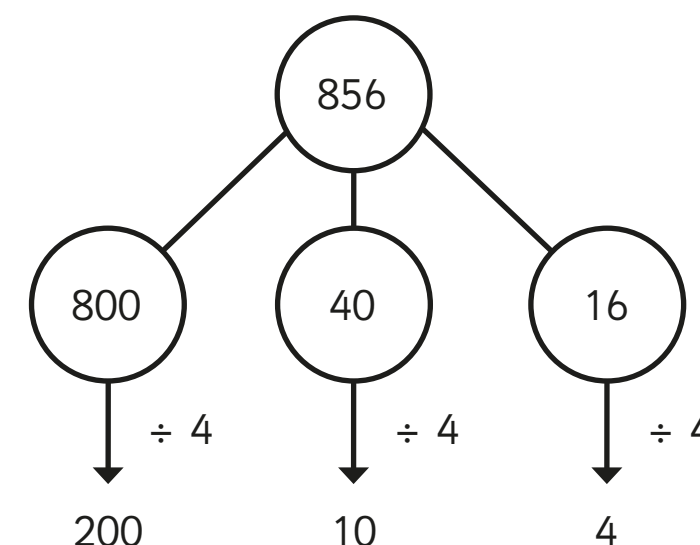
Complete Eva's method.

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

- 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

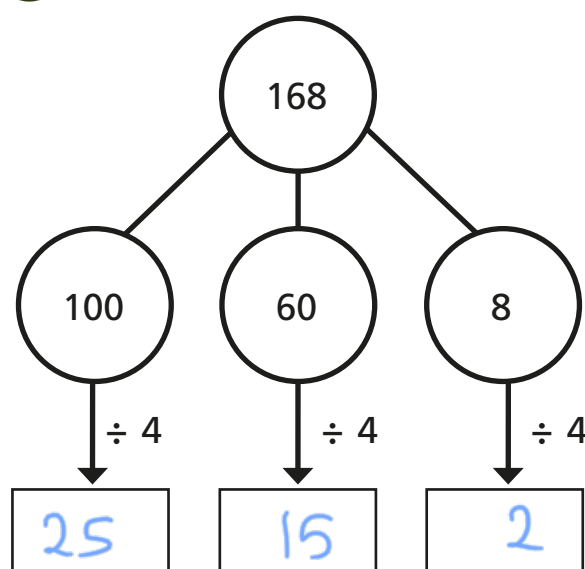
c)  $648 \div 4 =$  162

b)  $672 \div 6 =$  112

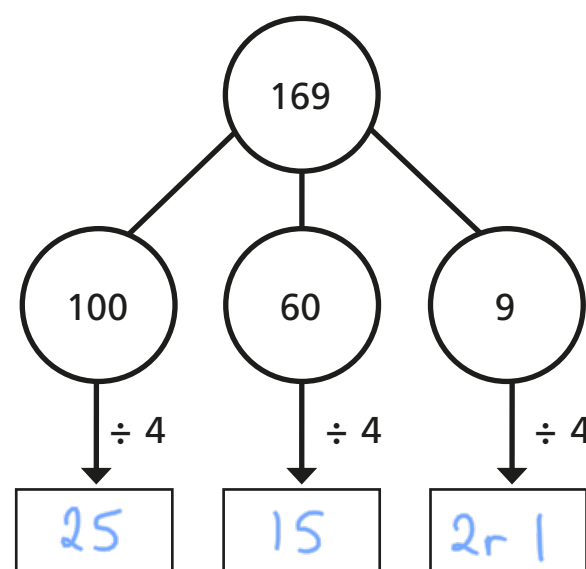
d)  $847 \div 7 =$  121



6 Complete the part-whole models and divisions.



$168 \div 4 =$  42



$169 \div 4 =$  42r1

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

Talk about it with a partner.



7 Complete the divisions.

a)  $258 \div 6 =$  43

c)  $864 \div 4 =$  216

b)  $623 \div 5 =$  124r3

d)  $824 \div 3 =$  274r2

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?

No

Explain your answer.

9

Use 15 counters and a place value chart.

a) Make a number that is divisible by 3

b) Make a number that has a remainder of 1 when divided by 3

c) Make a number that has a remainder of 2 when divided by 3

Create your own problem like this for a partner.

