

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.

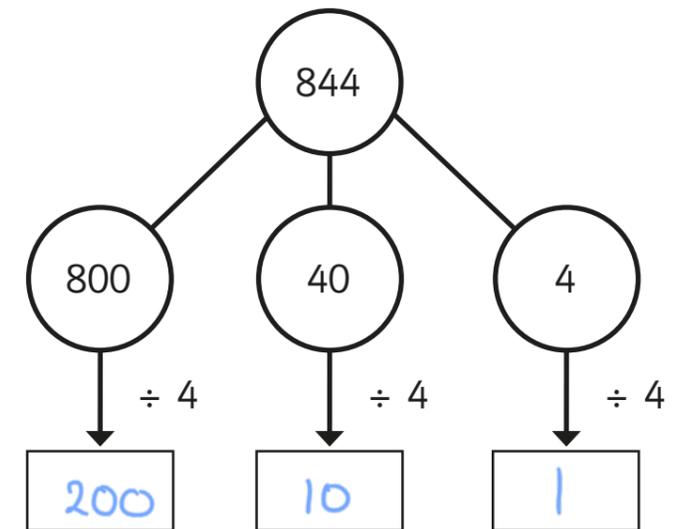
a) $525 \div 5 = \boxed{105}$

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.

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

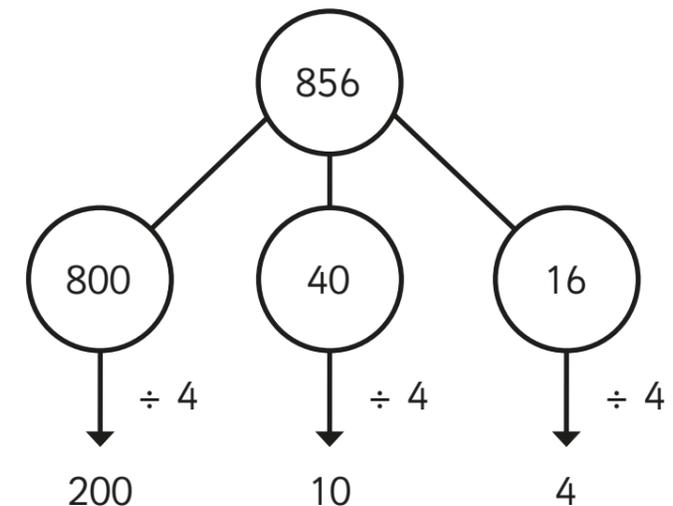
4 A ball of string is 848 cm long.

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

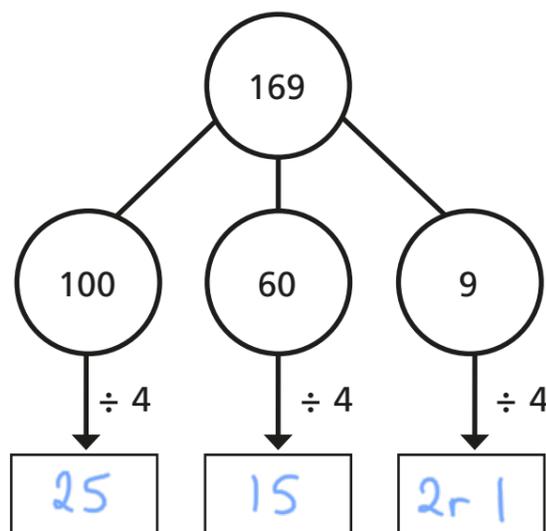
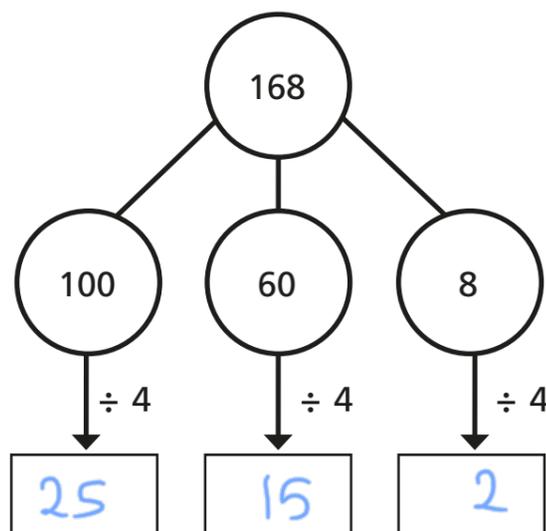
c) $648 \div 4 =$ 162

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.

