Divide 3-digits by 1-digit

1 Jack is working out 844 ÷ 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 ÷ 4 = 211

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

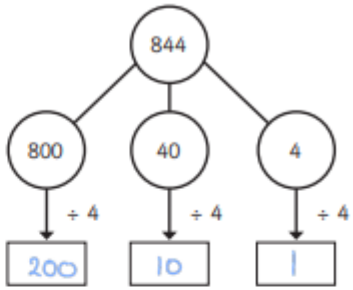
a) 525 ÷ 5 = 105

b) 636 ÷ 6 = 106

c) 840 ÷ 8 = 105

d) 903 ÷ 3 = 301

3 Eva is working out 844 ÷ 4 using a part-whole model.



Complete Eva's method.

844 ÷ 4 = 211

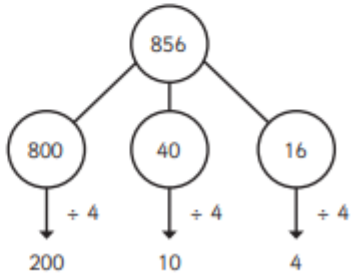
4 A ball of string is 848 cm long.

It is cut into 4 equal pieces.

What is the length of one piece of string?

212cm

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.

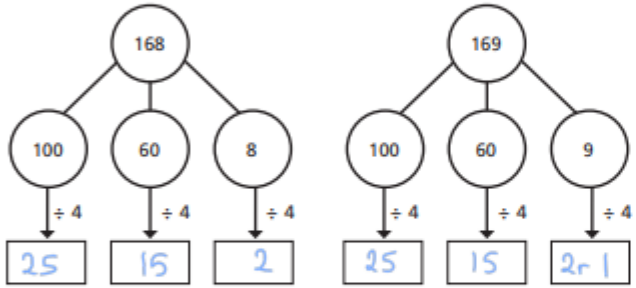
a) 585 ÷ 5 = 117

c) 648 ÷ 4 = 162

b) 672 ÷ 6 = 112

d) 847 ÷ 7 = 121

6 Complete the part-whole models and divisions.



168 ÷ 4 = 42

169 ÷ 4 = 42r 1

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

Talk about it with a partner.

7 Complete the divisions.

a) 258 ÷ 6 = 43

c) 864 ÷ 4 = 216

b) 623 ÷ 5 = 124r 3

d) 824 ÷ 3 = 274r 2

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.