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

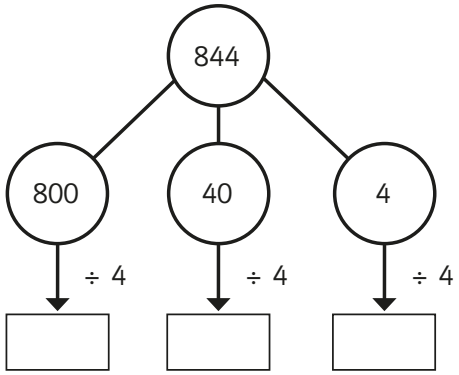
a) Talk about Jack's method with a partner.

b) Work out the division.

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

a) 525 ÷ 5 **b)** 636 ÷ 6 **c)** 840 ÷ 8 **d)** 903 ÷ 3

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



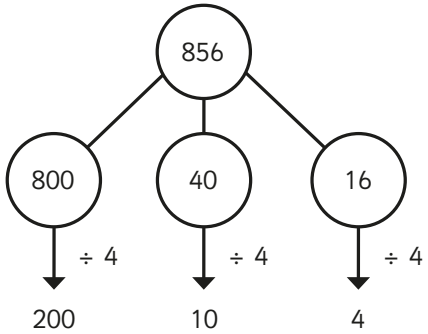
Complete Eva's method. 844 ÷ 4 = ☐

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.

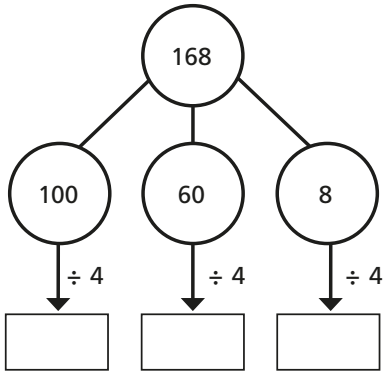


Could Whitney have partitioned her number another way?

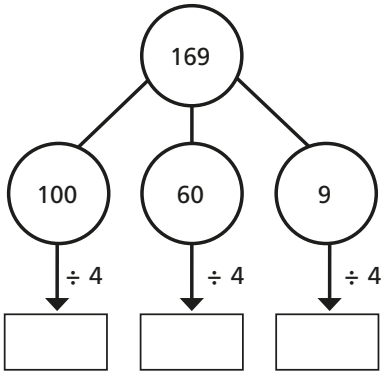
Use Whitney's method to work out these divisions.

a) 585 ÷ 5 **b)** 672 ÷ 6 **c)** 648 ÷ 4 **d)** 847 ÷ 7

6 Complete the part-whole models and divisions.



168 ÷ 4 = ☐

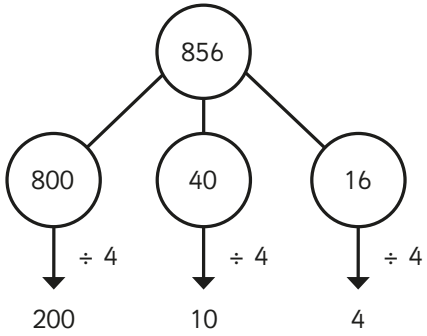


169 ÷ 4 = ☐

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

Talk about it with a partner.

5 Whitney is using flexible partitioning to divide a 3-digit number.



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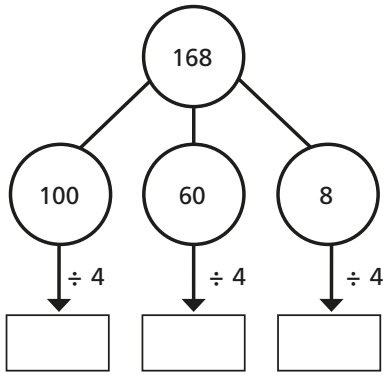

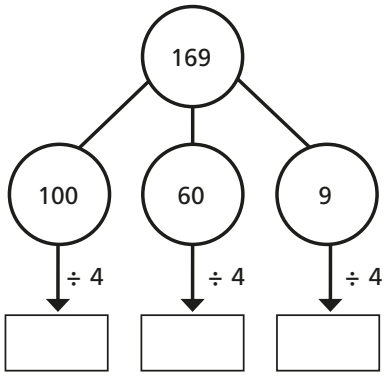

168 ÷ 4 = ☐ 169 ÷ 4 = ☐

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

Talk about it with a partner.

7 Work out the divisions.

a) 258 ÷ 6 **b)** 623 ÷ 5 **c)** 864 ÷ 4 **d)** 824 ÷ 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.