

Divide 2-digits by 1-digit (2)

- 1 Whitney is working out $49 \div 4$ using a place value chart.

Tens	Ones
10	1 1
10	1 1
10	1 1
10	1 1

1

- a) Talk about Whitney's method with a partner.
b) Why is there one counter left over?

- c) Complete the division.

$$49 \div 4 = \boxed{}$$

- d) Use place value counters to complete the divisions.

$$50 \div 4 = \boxed{}$$

$$51 \div 4 = \boxed{}$$

What do you notice?

- 2 Complete the divisions.

$$a) 47 \div 3 = \boxed{}$$

$$b) 26 \div 5 = \boxed{}$$

$$c) 89 \div 4 = \boxed{}$$

$$d) 32 \div 5 = \boxed{}$$

$$e) 49 \div 6 = \boxed{}$$

$$f) 47 \div 4 = \boxed{}$$

$$g) 74 \div 3 = \boxed{}$$

$$h) 81 \div 7 = \boxed{}$$

- 3 Complete the divisions.

$$a) 36 \div 4 = \boxed{}$$

$$37 \div 4 = \boxed{}$$

$$38 \div 4 = \boxed{}$$

$$39 \div 4 = \boxed{}$$

$$40 \div 4 = \boxed{}$$

$$c) 45 \div 3 = \boxed{}$$

$$46 \div 3 = \boxed{}$$

$$47 \div 3 = \boxed{}$$

$$48 \div 3 = \boxed{}$$

$$49 \div 3 = \boxed{}$$

$$b) 70 \div 5 = \boxed{}$$

$$71 \div 5 = \boxed{}$$

$$72 \div 5 = \boxed{}$$

$$73 \div 5 = \boxed{}$$

$$74 \div 5 = \boxed{}$$

$$d) 92 \div 4 = \boxed{}$$

$$91 \div 4 = \boxed{}$$

$$90 \div 4 = \boxed{}$$

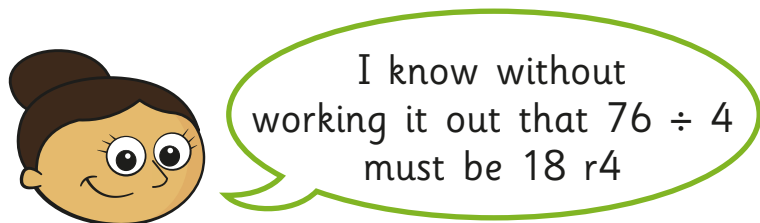
$$89 \div 4 = \boxed{}$$

$$88 \div 4 = \boxed{}$$



- 4 Dora has been working out some divisions.

$$\begin{array}{l} 72 \div 4 = 18 \\ 73 \div 4 = 18 \text{ r}1 \\ 74 \div 4 = 18 \text{ r}2 \\ 75 \div 4 = 18 \text{ r}3 \end{array}$$



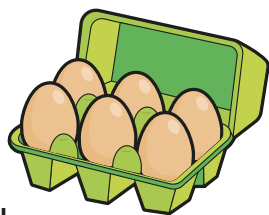
- a) Why does Dora think this?

- b) Explain why Dora is wrong.

- 5 Eggs come in boxes of 6

Annie has 75 eggs.

She wants to know how many boxes she can fill.



- a) Complete the division to work it out.

$$\square \div \square = \square \text{ r} \square$$

- b) What does the remainder represent?

Talk about it with a partner.

- c) Complete the sentence.

Annie can fill boxes with eggs left over.

- 6 Jack has these bulbs.

	Daffodils 49
	Tulips 63
	Crocuses 98

Equal numbers of each bulb are put into 4 tubs.

How many of each bulb will be in each tub?

Daffodils Tulips Crocuses

How many of each bulb will be left over?

Daffodils Tulips Crocuses

How many tubs could Jack use so that there are no bulbs left over?

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

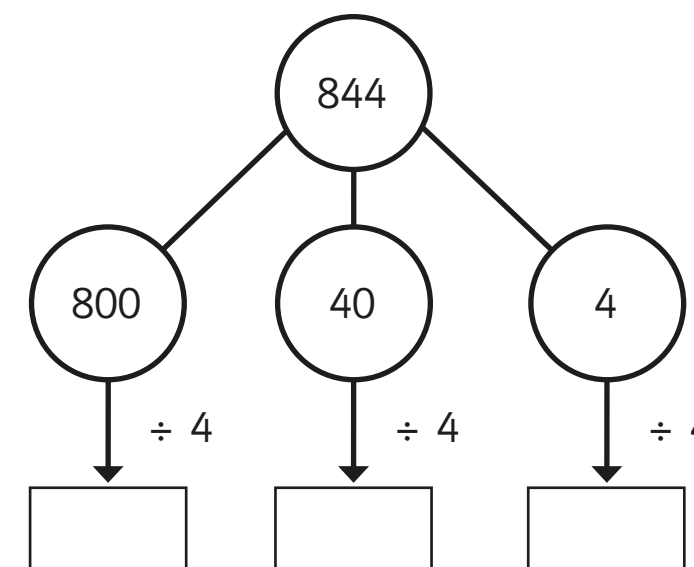
- a) Talk about Jack's method with a partner.
b) Complete the division.

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

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

- a) $525 \div 5 = \boxed{}$ c) $840 \div 8 = \boxed{}$
b) $636 \div 6 = \boxed{}$ d) $903 \div 3 = \boxed{}$

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



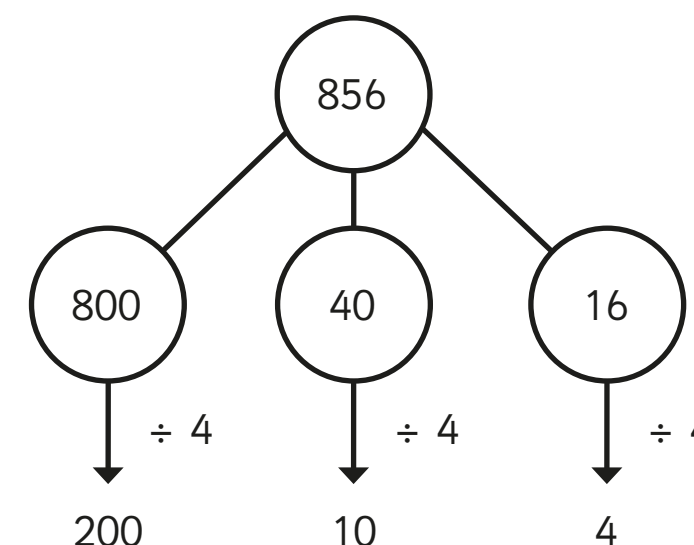
Complete Eva's method.

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

- 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?

$$\boxed{}$$

- 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) $585 \div 5 =$

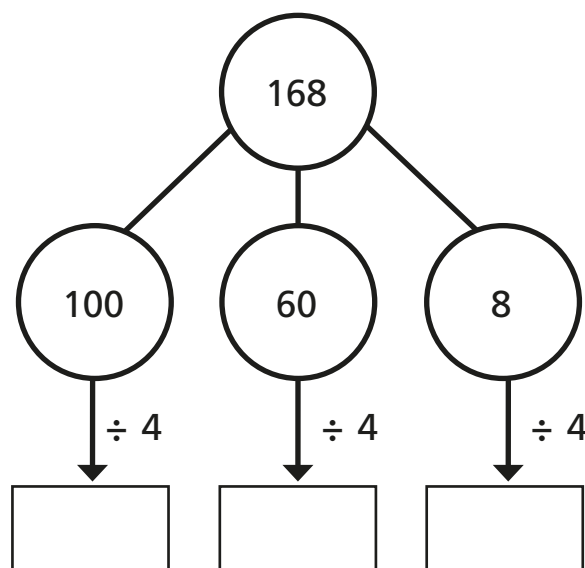
c) $648 \div 4 =$

b) $672 \div 6 =$

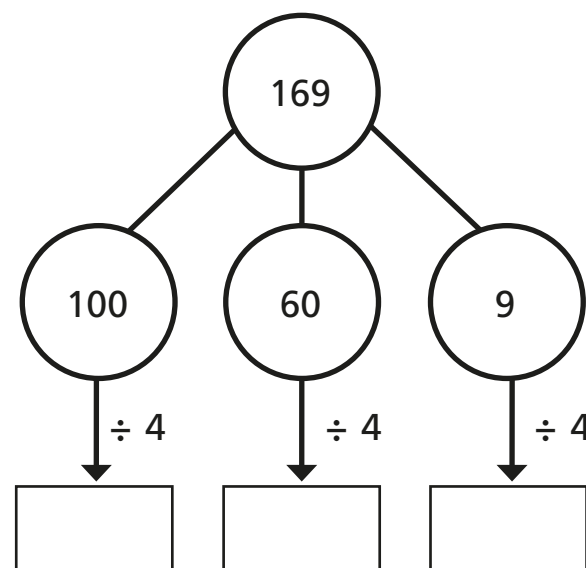
d) $847 \div 7 =$



6 Complete the part-whole models and divisions.



$168 \div 4 =$



$169 \div 4 =$

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

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.



Divide 4-digits by 1-digit



- 1 a) Circle the groups of 3 to help you complete the sentences and calculation.

The first step has been done for you.

Th	H	T	O
1,000 1,000	100 100	10 10	1 1
1,000 1,000	100 100	10	1 1
1,000 1,000	100 100		1 1
1,000 1,000	100 100		1 1
	100		

		1			
3	3	9	3	6	

There is group of 3 thousands.

There are groups of 3 hundreds.

There is group of 3 tens.

There are groups of 3 ones.

$$3,936 \div 3 = \boxed{}$$

- b) Use the place value chart to work out $8,404 \div 4$

Th	H	T	O

4	8	4	0	4	

$$8,404 \div 4 = \boxed{}$$

- 2 Use the place value charts to work out the divisions.

a) $8,532 \div 2 = \boxed{}$

Th	H	T	O
1,000 1,000	100 100	10 10	1 1
1,000 1,000	100 100	10	1 1
1,000 1,000	100	10 10	1 1
1,000 1,000		10 10	1 1
		10 10	1 1
		10 10	1 1
		10 10	

2	8	5	3	2	

b) $5,296 \div 4 = \boxed{}$

Th	H	T	O

4	5	2	9	6	

c) $6,078 \div 6 = \boxed{}$

Th	H	T	O

6	6	0	7	8	



3 Complete the divisions.

a)

	5	3	5	6	0	

d)

	6	9	7	8	6	

b)

	9	2	7	3	6	

e)

	3	4	6	8	3	

c)

	4	6	5	2	4	

f)

	1	2	0	7	9	

Could you have calculated the answer to part f) more efficiently?

4 Work out the values of a , b and c .

9,415						
a	a	a	a	a	a	a

$a =$

b	b	b	b	b	b	b	b
5,328							

$b =$

120	120	120	120
c	c	c	c

$c =$

5 Find the missing digits.

a)

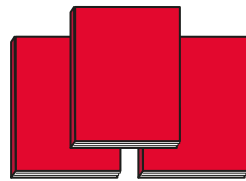
		2	2		1
		8	9	6	

b)

		3		6	
		6	5		4

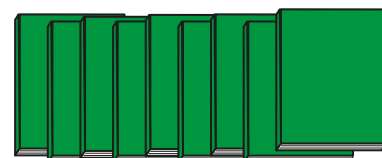
6 Books are available to buy in three different deals.

Deal A



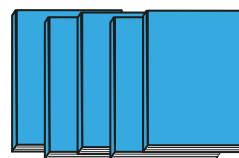
£12.99

Deal B



£38.16

Deal C



£25.60

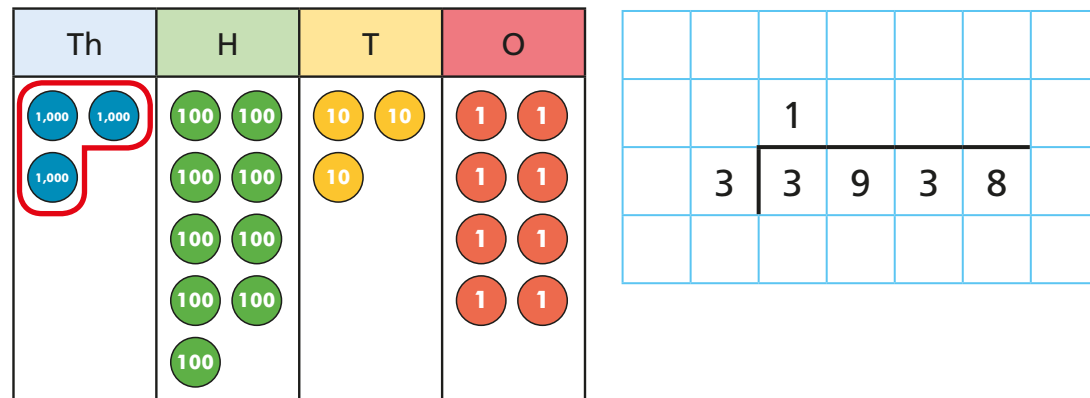
Which is the best deal?

Show your workings.

Divide with remainders

- 1 a) Circle the groups of 3 to help complete the sentences and calculation.

The first step has been done for you.



There is 1 group of 3 thousands.

There are groups of 3 hundreds.

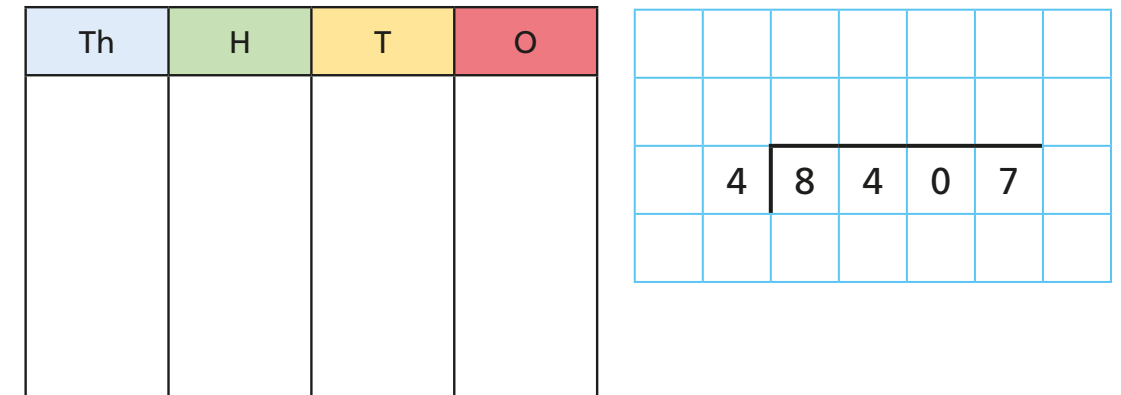
There is group of 3 tens.

There are groups of 3 ones.

There are ones left over.

$3,938 \div 3 =$ remainder

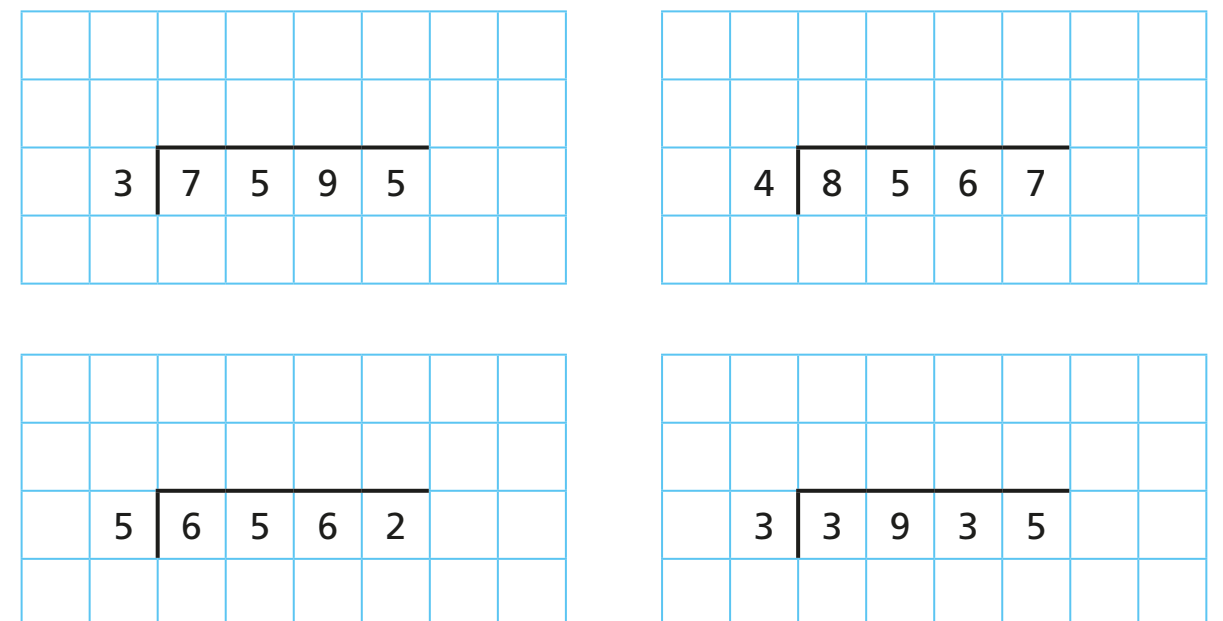
- b) Use place value counters to work out $8,407 \div 4$



$8,407 \div 4 =$ remainder

- 2 a) Complete the divisions.

Use place value counters to help you.



- b) Write $<$, $>$ or $=$ to complete the statements.

$7,595 \div 3$ $\bigcirc$ $8,567 \div 4$

$6,562 \div 5$ $\bigcirc$ $3,935 \div 3$

- 3 Write the calculations in the correct column of the table.

$$5,066 \div 4$$

$$9,513 \div 4$$

$$1,234 \div 4$$

$$6,562 \div 4$$

$$6,563 \div 4$$

$$9,515 \div 4$$

Remainder of 1	Remainder of 2	Remainder of 3	Remainder of 4

Are any columns empty? Talk to a partner about why this has happened.

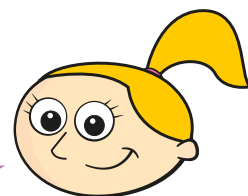
- 4
- 7,816

7,861

6,781

1,786

I know that if I divide these numbers by 5 the remainder will be 1



Is Eva correct? _____

How do you know?

- 5 There are 459 children in a school.
They are sitting at tables in groups of 7



We will need 65 tables.

Do you agree with Mo? _____

Explain your answer.

- 6 Bags of crisps are put into multipacks of 6
The multipacks are then packed into boxes of 8
Yesterday, 6,500 bags of crisps were packed.
How many boxes of crisps were packed?

- 7

2

3

4

5

÷

- a) How many ways can you complete the calculation using all the digit cards so that there is a remainder of 1?

- b) What do you notice?

- 8 Dora is thinking of a number between 500 and 600
When she divides it by a 1-digit number it has a remainder of 4
What could Dora's number be?

Name _____



1 Calculate.

$$312 \times 3 = \underline{\hspace{2cm}}$$

$$312 \div 3 = \underline{\hspace{2cm}}$$

$$1,371 \times 7 = \underline{\hspace{2cm}}$$

$$798 \div 5 = \underline{\hspace{2cm}}$$



4 marks

2 Complete the calculation.

		2		7
$\times$				6
	1		4	2



2 marks

3 Jack is thinking of a number.
When he multiplies his number by 7, he gets 161
What is Jack's number?



1 mark

4 Complete the grid for the multiplication 36×14

	30	6
10	300	
4		

Use the grid to work out 36×14



2 marks



1 mark

- 5 In a theatre there are 45 rows of chairs.
There are 36 chairs in each row.
How many chairs are there altogether?

_____ chairs

2 marks

- 6 Jen and Max each have 5 digit cards.

Jen arranges her cards to make a 3-digit and 2-digit number.

×

She multiplies the two numbers together.

What is her answer?

Max arranges his cards to make a 3-digit and 2-digit number.

He multiplies his numbers and his answer ends in a 5

What could the 3-digit and 2-digit number be?

×

2 marks

1 mark

- 7 A jacket costs £52
Eight jackets and three skirts cost £653
How much does a skirt cost?

£ _____

2 marks

- 8 Some cards are shared between 7 boxes.
There are 63 cards in each box and 4 left over.
How many cards were shared between the boxes?

_____ cards

1 mark

- 9 Work out $25 \times 87 \times 4$
Explain or show your method.

2 marks

Circle how confident you feel with multiplication and division.

1
2
3
4
5
Not

Very
confident

confident