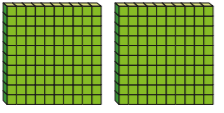
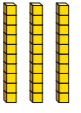

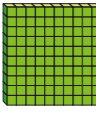
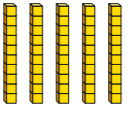



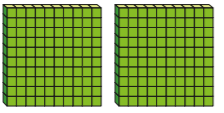
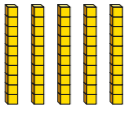

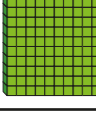
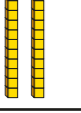

1 Complete the column addition.

a) $235 + 157$

Hundreds	Tens	Ones
		
		

	H	T	O
	2	3	5
+	1	5	7
	3	9	2
	0	1	

b) $372 + 144$

Hundreds	Tens	Ones
		
		

	H	T	O
	3	7	2
+	1	4	4
	5	1	6
	1		


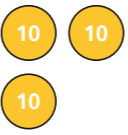
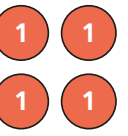



2 Tick the additions that need an exchange of ones for a ten.

		H	T	O			H	T	O			H	T	O	
		2	3	8			4	2	7			3	0	8	
	+	1	4	1		+	2	6	8		+	1	5	1	

How do you know if an addition needs to exchange 10 ones for a ten?

The ones column has a total greater than 9

3 Dani uses counters to represent an addition.

H	T	O
		
		

a) What addition is Dani trying to work out?

$336 + 276$

b) Work out the answer to the addition.

612

c) How many exchanges did you have to do?

2

4 Work out the additions.

a)

		H	T	O	
		1	8	7	
	+	4	7	1	
		6	5	8	
		1			

c) $718 + 108$

		7	1	8	
	+	1	0	8	
		8	2	6	
		1			

b)

		H	T	O	
		5	1	7	m
	+	2	3	4	m
		7	5	1	m
		1			

d) $526 + 294$

		5	2	6	
	+	2	9	4	
		8	2	0	
		1	1		

5 a) Tick the additions with an answer that ends in zero.

$317 + 203$	<input checked="" type="checkbox"/>	$192 + 784$	<input type="checkbox"/>	$390 + 177$	<input type="checkbox"/>
-------------	-------------------------------------	-------------	--------------------------	-------------	--------------------------

$455 + 165$	<input checked="" type="checkbox"/>	$386 + 184$	<input checked="" type="checkbox"/>	$319 + 501$	<input checked="" type="checkbox"/>
-------------	-------------------------------------	-------------	-------------------------------------	-------------	-------------------------------------

b) Did you have to work out all of the additions?

c) Complete the sentences.

The answer to $175 + 212$ ends with a 7

The answer to $609 + 175$ ends with a 4

The answer to $334 + 178$ ends with a 2

The answer to $716 +$ 7 ends with a 3

6 Find the missing digits.

a)

		H	T	O	
		3	8	2	
	+	4	5	5	
		8	3	7	
		1			

c)

		H	T	O	
		2	7	8	
	+	2	5	2	
		5	3	0	
		1	1		

b)

		H	T	O	
		1	0	9	
	+	4	2	6	
		5	3	5	
		1			

d)

		Th	H	T	O	
			5	7	3	
	+	0	4	2	7	
		1	0	0	0	
		1	1	1		

7 Dexter bakes 148 biscuits on Monday.

On Tuesday he bakes 273 more biscuits than he did on Monday.

a) How many biscuits does Dexter bake on Tuesday?

421

b) How many biscuits does he bake in total on Monday and Tuesday?

569

8 Write two addition calculations that have:

- 1 exchange
- 2 exchanges.

Compare answers with a partner.



Monday 08.06.2020

1)

B is correct because
it shows

$$323 + 244 = 567$$

A shows

$$343 + 225 = 568$$

2) a) $164 + 327 = 491$

b) $164 + 491 = 655$

Tuesday 09.06.2020

1)

$$566 - 434 = 132$$

Possible answer:

One 100, three
10s and two 1s

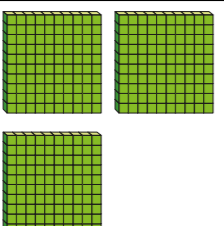
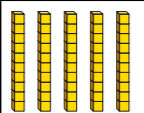
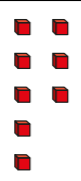
Thirteen 10s and
two 1s

132 ones etc.

Subtract 3-digit numbers from 3-digit numbers – no exchange

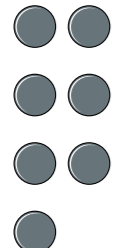

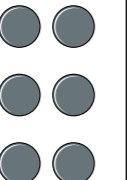
1 Complete the column subtractions.

a) $358 - 226$

Hundreds	Tens	Ones
		

	H	T	O
	3	5	8
-	2	2	6
	1	3	2

b) $726 - 303$

H	T	O
		

	H	T	O
	7	2	6
-	3	0	3
	4	2	3

2 Complete the subtractions.

a)

	H	T	O
	6	7	2
-	4	7	1
	2	0	1

b)

	H	T	O
	5	6	3
-	1	5	1
	4	1	2

3 Ron is working out $785 - 257$

		H	T	O	
		2	5	7	
	-	7	8	5	

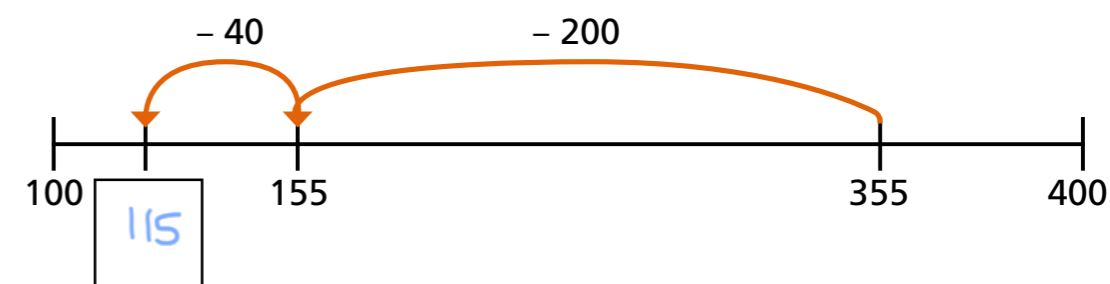
Do you agree with the way Ron has set out the subtraction?

Why?

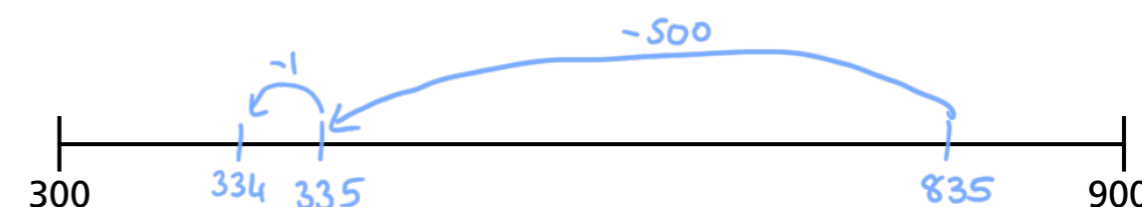
No - we are subtracting 257 from 785 so 785 should be on top

4 Use the number line to work out the subtraction.

a) $355 - 240 =$ 115



b) $835 - 501 =$ 334



- 5 A TV costs £120 less than this computer.
How much does the TV cost?



£379

- 6 There are 849 people at a concert.
There are 625 adults at the concert.

a) How many children are at the concert?

224

b) How many more adults than children are at the concert?

401

- 7 What are the values of each of the shapes?

a)

	6	★	8
—	★	▲	▲
	●	1	5

★ = 4

● = 2

▲ = 3

b)

	9	+	◆
—	+	4	⬠
	◆	⬠	◆

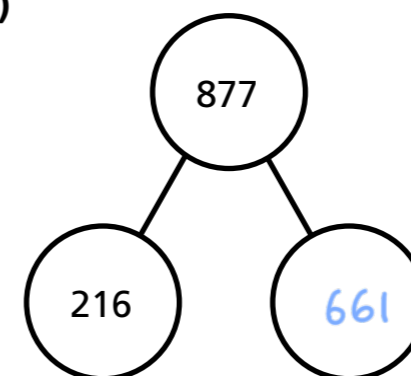
⊕ = 4

◆ = 5

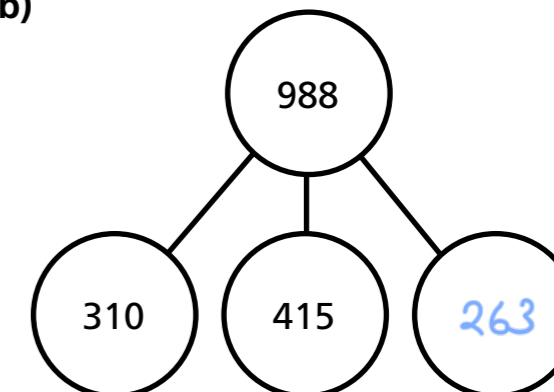
⬠ = 0

- 8 Complete the part-whole models.

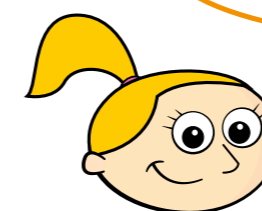
a)



b)



- 9 Eva is subtracting 727 from 1,000



First I subtract 1 from each number.

Then I subtract the two numbers.

So $1,000 - 727$ is the same as $999 - 726 = 273$

Why does Eva's method work?

Talk about it with a partner.

Use Eva's method to complete the subtractions.

$1,000 - 285 = 715$

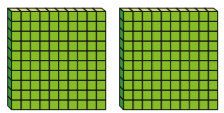
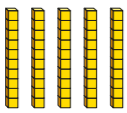

$1,000 - 188 = 812$

$800 - 636 = 364$

Subtract a 3-digit number from a 3-digit number – exchange

1 Complete the column subtractions.

a) $254 - 126$

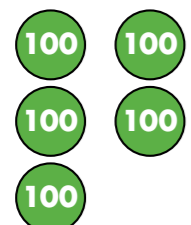
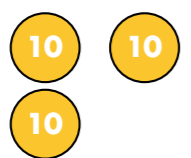
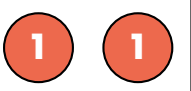
Hundreds	Tens	Ones
		

	H	T	O
	2	5	4
-	1	2	6
	1	2	8

What exchange did you have to make?

1 ten for 10 ones.

b) $532 - 281$

Hundreds	Tens	Ones
		

	H	T	O
	5	3	2
-	2	8	1
	2	5	1

What exchange did you have to make?

1 hundred for 10 tens.

2 Which of these calculations need an exchange?

Tick your answers.

	H	T	O
	6	5	8
-	1	4	4

	H	T	O
	3	2	3
-	1	1	7

	H	T	O
	4	2	9
-	1	7	2

How do you know?

3 Work out the subtractions.

a) $735 - 218$

	H	T	O
	7	3	5
-	2	1	8
	5	1	7

c) $415 - 179$

	H	T	O
	4	1	5
-	1	7	9
	2	3	6

b) $428 - 163$

	H	T	O
	4	2	8
-	1	6	3
	2	6	5

d) $382 - 194$

	H	T	O
	3	8	2
-	1	9	4
	1	8	8

4 Talk about the mistake that has been made.

$$\begin{array}{r} 546 \\ - 283 \\ \hline 343 \end{array}$$

5 Complete the subtractions.

a)

	H	T	O
	6	7	0
-	5	4	6
	1	5	4

b)

	H	T	O
	8	0	5
-	1	7	9
	6	2	6

6 Work out the missing digits in these subtractions.

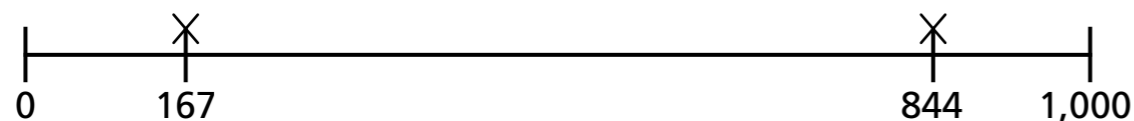
a)

	H	T	O
	6	7	5
-	3	4	2
	3	7	3

b)

	H	T	O
	3	4	0
-	1	2	8
	2	9	2

7 Two points are marked on a number line.



What is the difference between the two points?

$$677$$

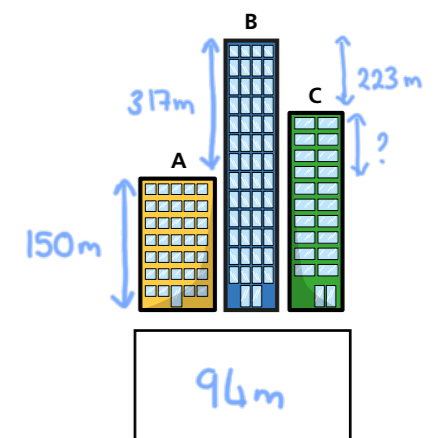
8 Find the missing numbers.

a) $179 + \boxed{416} = 595$ c) $95 + \boxed{637} + 138 = 870$

b) $718 - \boxed{370} = 348$ d) $\boxed{949} - 446 = 503$

9 Here are 3 buildings.

- A is 150 m tall
- B is 317 m taller than A
- C is 223 m shorter than B



How much taller is C than A?

10 Aisha buys these items.



How much change does she have from £1,000?

$$£188$$

Wednesday 10.06.2020

1)

$$533 - 218 = 315$$

$$504 - 258 = 246$$

2)

Kassie has exchanged from the hundred column to the ones so there are 106 ones in the ones column. She should have exchanged 1 hundred for 10 tens and then 1 ten for 10 ones.

$$406 - 289 = 117$$

1 There are 195 people on a train.

There are 308 people on a plane.

a) Complete the sentences to estimate the total number of people.

195 is close to 200 308 is close to 300

My estimate for the number of people in total is

200 + 300 = 500

b) Work out the total number of people on the train and plane.

503

Was it a good estimate? How do you know?



2 Estimate the answer to $395 + 49$

395 is close to 400 49 is close to 50

My estimate is 450

Work out the exact answer.

How close was your estimate? Talk to a partner.



3 For each question work out an estimate and the exact answer.

Question	Estimate	Exact answer
$705 - 194$	$700 - 200 = 500$	511
$511 - 97$	$500 - 100 = 400$	414
$187 + 203 + 19$	$200 + 200 + 20 = 420$	409

4 Why is it a good idea to estimate the answer to a calculation?
Write one reason.

To check if the answer makes sense / is approximately correct.

- 5 Amir is working out $195 + 412$

		H	T	O	
		1	9	5	
+		4	1	2	
	5	1	0	7	

Use an estimate to show how you know Amir is wrong.

$$200 + 400 = 600$$

Amir's answer is too big.

- 6 Mr Jones cycles some kilometres each day.

The table shows the distance he cycles.

Monday	Tuesday	Wednesday	Thursday
189 km	88 km	215 km	53 km

Mr Jones planned to cycle 500 km in total by the end of Thursday.

- a) Has Mr Jones cycled as many kilometres as he planned?
Give an estimate.

$$200 + 100 + 200 + 50 = 550 \quad \text{Yes}$$

- b) How far has Mr Jones cycled in total?

545 km

- 7 A bottle is full of 813 ml of orange juice.

A glass has a capacity of 495 ml.

Can you pour two full glasses of juice? Give an estimate.

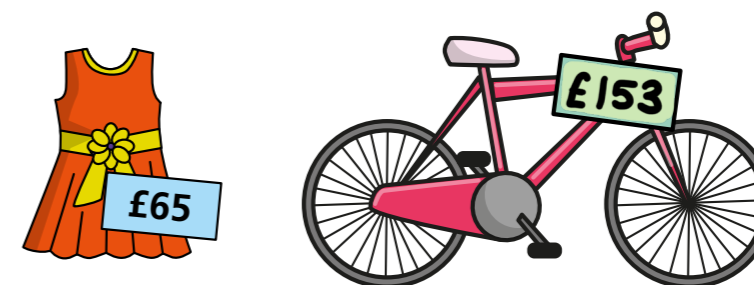
Explain your answer.



$$\text{No} \quad 500\text{ml} + 500\text{ml} = 1,000\text{ml}$$

$$813\text{ml} < 1,000\text{ml}$$

- 8 Whitney is estimating if she has saved enough money to buy a new dress and a new bike.



Whitney has so far saved £220

I have not saved enough.
£65 is close to £100 and £153 is close to £200. That means I need about £300

Is Whitney correct? No

Explain your answer.

$$£153 \text{ is closer to } £150 \text{ and } £65 \text{ is closer to } £70$$

$$£150 + £70 = £220 \text{ so she has saved enough.}$$



Thursday 11.06.2020

1)

Yes, because he found two numbers close to the original numbers.

He could have rounded to the nearest 10 and calculated.

$$140 - 100 (= 40)$$

2)

Possible answers:

$$121 - 48$$
$$(120 - 50)$$

$$41 + 33$$
$$(40 + 30)$$

Friday 12.06.2020

Answers

Challenge 1 - 3 muffins

Challenge 2 - 15 pence

Challenge 3 - 24-years-old

Challenge 4 - 36 metres