

Week beg 1st June

1.6.20

Already covered this content?

Year 3 Week 5 w/c 18th May

We're aware that some of you will have already covered this content earlier in the lockdown period. If this is the case, here are your alternative lessons for Summer Week 5

Topic	Video	Premium Subscriber? Get the worksheet!
Add and subtract 2- and 3-digit numbers	https://vimeo.com/4173332039	Autumn Block 2 Add and subtract 2-digit and 3-digit numbers - not crossing 10 or 100
Add 2- and 3-digit numbers	https://vimeo.com/4173332285	Autumn Block 2 Add 2-digit and 3-digit numbers - crossing 10 or 100
Subtract 2-digits from 3-digits	https://vimeo.com/4173332443	Autumn Block 2 Subtract a 2-digit number from a 3-digit number - crossing 10 or 100
Add 3-digit numbers	https://vimeo.com/4173332649	Autumn Block 2 Add two 3-digit numbers - not crossing 10 or 100

Add and subtract 2-digit and 3-digit numbers – not crossing 10 or 100



1 Work out the additions.

a)

Hundreds	Tens	Ones

H	T	O
2	5	1
+	3	2

b)

H	T	O

H	T	O
3	0	7
+	4	2

c)

H	T	O
2	3	7
+	5	1

d)

H	T	O
7	5	2
+	3	7

2 Work out these subtractions.

a)

H	T	O

H	T	O
4	2	7
-	1	5

b)

H	T	O

H	T	O
3	3	6
-	2	5

c)

H	T	O
	7	8
	5	2

d)

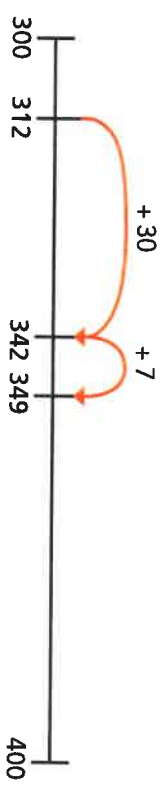
H	T	O
	9	8
	7	2

3 Complete the additions.

- a) £69 + £220 = £
- b) 314 + 42 + 23 =



4 a) Eva uses a number line to work out $312 + 37$



What has Eva done? Talk to a partner.

b) Use the number line to work out $425 + 63$



c) Use the number line to work out $774 - 62$



5 Esther has a piece of wood 255 cm long. She cuts it into 2 pieces.



One piece is 34 cm long.

How long is the other piece?

6 Filip wants to buy these two items.



He has £200

Does he have enough money? _____

How do you know? Talk to a partner.

7 Use the digit cards to make each calculation correct.

1	3	6	7	9
---	---	---	---	---

	H	T	O
+			
	9	9	8

	H	T	O
+			
	9	8	9

	H	T	O
-			
	1	6	1

	H	T	O
-			
	6	2	2

Add 2-digit and 3-digit numbers – crossing 10 or 100

1 Use the place value chart to work out $328 + 36$

H	T	O
3	2	8
+		

H	T	O
+		

H	T	O
3	2	8
+		

H	T	O
+		

b) $754 + 66$

H	T	O
7	5	4
+		

3 Work out the additions.

a)

H	T	O
1	7	5
+		

d) $845 + 72$

+		

2 Work out the additions.

a) $572 + 45$

H	T	O
5	7	2
+		

b)

H	T	O
3	0	7
+		

e) $436 + 85$

+		

c) $35 \text{ kg} + 239 \text{ kg}$

+		

f) $£739 + £68$

+		

- 4 Ron works out $476 + 35$

$$\begin{array}{r} 476 \\ + 35 \\ \hline 826 \\ \hline \end{array}$$

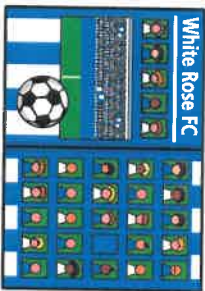
What mistake has Ron made?

Mark out the correct answer.

- 5 Alex collects stickers.

She has collected 286 stickers.

She only needs 69 more stickers to fill the album.



How many stickers does the album hold when full?

- 6 Here are some digit cards.

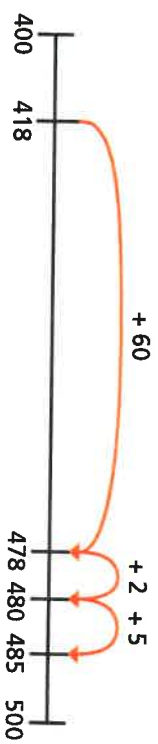


Arrange the digits to make two different additions that have just one exchange.

	H	T	O
+			

	H	T	O
+			

- 7 Mo uses a number line to work out an addition.



What addition has Mo worked out?

<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>
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- 8 Use the number lines to complete the additions.

a) $235 + 47 =$



b) $235 + 87 =$



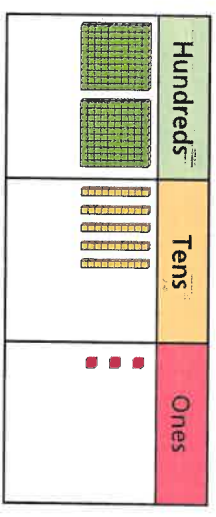
Lesson 2

Subtract 2-digit numbers from 3-digit numbers – crossing 10 or 100



1 Use base 10 to make the number 253

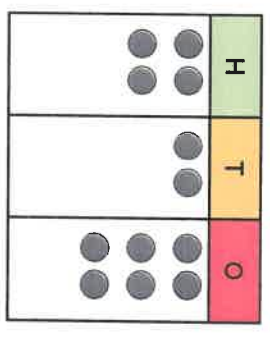
Subtract 27 from 253



- a) Show a partner the method you used.
- b) Complete the column subtraction.

H	T	O
2	5	3
-	2	7
<hr/>		

2 Work out $426 - 82$



H	T	O
4	2	6
-	8	2
<hr/>		

3 Work out the subtractions.

a)

H	T	O
2	6	5
-	3	8
<hr/>		

d) $212 \text{ cm} - 42 \text{ cm}$

b)

H	T	O
1	7	2
-	3	9
<hr/>		

e) $413 - 65$

c) $538 - 75$

f) $847 - 79$

- 4 A film is shown 3 times in a day.

The table shows how many children watch each showing.

Showing time	11 am	3 pm	7 pm
Number of children	462	295	78

How many more children watch the 11 am showing than the 7 pm showing?

- 5 Find the missing values.

a)

	728	
45		

b)

		650
38	53	

- 6 What mistakes have been made in these column subtractions?

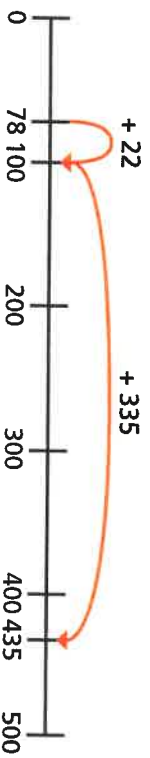
a)

$$\begin{array}{r} 357 \\ - 29 \\ \hline 332 \end{array}$$

b)

$$\begin{array}{r} 402 \\ - 35 \\ \hline 477 \end{array}$$

- 7 Whitney uses a number line to show that $435 - 78 = 357$



Explain what you think Whitney has done.

- 8 Work out the missing digits.

a)

		H	T	O
		4	5	
	-	2		
		7		6

b)

		H	T	O
		3		
	-	7	8	
		2	8	

- 9 a) Use three different methods to work out $470 - 79$

Compare methods with a partner.

- b) How can you work out $500 - 68$ in your head?

What method did you use?

Lesson 4

Add two 3-digit numbers – not crossing 10 or 100



- 1 Complete the column addition.
Use base 10 to help you.

Hundreds	Tens	Ones

H	T	O
4	5	3
+	1	2

H	T	O
+		

- 2 Kim uses counters and a place value chart to help her work out $362 + 205$

Hundreds	Tens	Ones

H	T	O
3	6	2
+	2	0

H	T	O
+		

- a) Draw counters to complete the chart.
- b) Complete the column addition.
- c) Which column did you add first? Talk to a partner about your method.



- 3 Mrs Morgan drives 230 km on Monday.
On Tuesday she drives 169 km.
How far does she drive in total on Monday and Tuesday?

- 4 Complete the number line to work out the addition.

a) $711 + 140 =$

$+ 100$ $+ 40$

b) $414 + 203 =$

$+$ $+$

c) $502 + 384 =$

5 Complete the additions.

a) $736 + 203 =$

c) $£391 + £505 =$

b) $184 + 105 =$

6 The table shows the number of boys and girls in 2 schools.

	Boys	Girls
School A	224	305
School B	400	<input type="text"/>

a) The total number of children in each school is equal.

Without working it out, which school has the most girls?

How do you know?

b) How many girls are there in school B?

7 Three children each work out an addition problem.

- Each child uses the same 6 digits.
- Each addition gives the same answer of 888
- Each child adds 2 different numbers together.

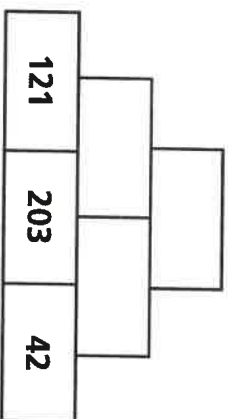
Work out a possible set of addition problems.

	H	T	O		H	T	O		H	T	O
+				+				+			
	8	8	8		8	8	8		8	8	8

8 Here is an addition pyramid.

Add the two numbers below to make the number above.

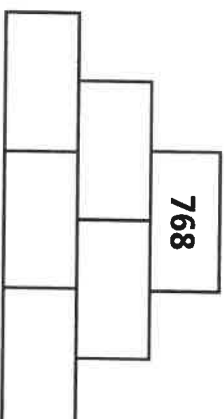
a) Complete the addition pyramid.



b) Complete the addition pyramid.

None of the additions should have an exchange.

The total is 768



Compare answers with a partner.



8.6.20

Week beg 8th June

Already covered this content?

Year 3 Week 6 w/c 1st June

We're aware that some of you will have already covered this content earlier in the lockdown period. If this is the case, here are your alternative lessons for Summer Week 6

Topic	Video	Premium Subscriber? Get the worksheet!
Add 3-digit numbers	https://vimeo.com/420240608	Autumn Block 2 Add two 3-digit numbers - crossing 10 or 100
Subtract 3-digit numbers	https://vimeo.com/420240853	Autumn Block 2 Subtract a 3-digit number from a 3-digit number - no exchange
Subtract 3-digit numbers	https://vimeo.com/420240964	Autumn Block 2 Subtract a 3-digit number from a 3-digit number - exchange
Estimating	https://vimeo.com/420241173	Autumn Block 2 Estimate answers to calculations

Add two 3-digit numbers – crossing 10 or 100



1 Complete the column addition.

a) 235 + 157

Hundreds	Tens	Ones
+		

H	T	O
2	3	5
+	1	5

b) 372 + 144

Hundreds	Tens	Ones
+		

H	T	O
3	7	2
+	1	4

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?

3 Dani uses counters to represent an addition.

H	T	O
+		

a) What addition is Dani trying to work out?

b) Work out the answer to the addition.

c) How many exchanges did you have to do?

4 Work out the additions.

a)

	H	T	O
	1	8	7
+	4	7	1
<hr/>			

c) $718 + 108$

	H	T	O
+			
<hr/>			

b)

	H	T	O
	5	1	7
+	2	3	4
<hr/>			

d) $526 + 294$

	H	T	O
+			
<hr/>			

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

$317 + 203$

$192 + 784$

$390 + 177$

$455 + 165$

$386 + 184$

$319 + 501$

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

c) Complete the sentences.

The answer to $175 + 212$ ends with a

The answer to $609 + 175$ ends with a

The answer to $334 + 178$ ends with a

The answer to $716 +$

ends with a 3

6 Find the missing digits.

a)

	H	T	O
	3		2
+	4	5	
		3	7

c)

	H	T	O
	2	7	8
+	2	5	
			0

b)

	H	T	O
	1	0	9
+		2	
	5		5

d)

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

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?

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

8 Write two addition calculations that have:

- 1 exchange
- 2 exchanges.

Compare answers with a partner.

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

b) $726 - 303$

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

2 Complete the subtractions.

a)

H	T	O
6	7	2
- 4	7	1

b)

H	T	O
5	6	3
- 1	5	1

3 Ron is working out $785 - 257$

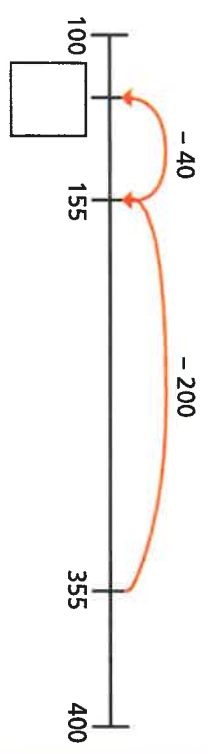
H	T	O
2	5	7
- 7	8	5

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

Why? ..

4 Use the number line to work out the subtraction.

a) $355 - 240 =$



b) $835 - 501 =$



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



- 6 There are 849 people at a concert.

There are ~~625~~ adults at the concert.

- a) How many children are at the concert?

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

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

	6	★	8
—	★	▲	▲
	●	1	5

	9	+	+	◆
—	+	4	◆	◆
	◆	◆	◆	◆

★ =

● =

▲ =

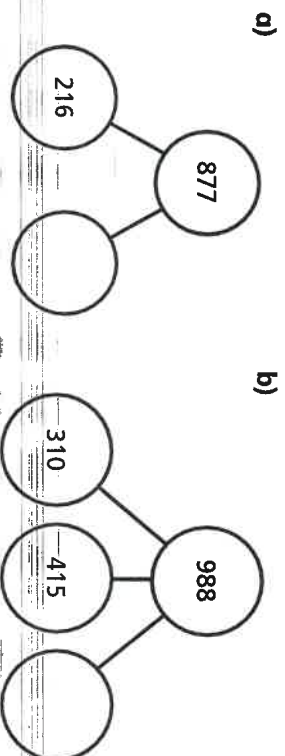
+

◆ =

◆ =

◆ =

- 8 Complete the part-whole models.



- 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.

$1,000 - 285 =$

$1,000 - 188 =$

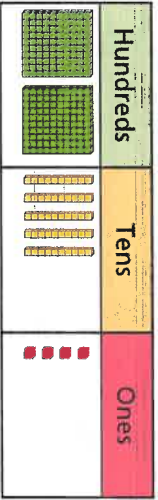
$800 - 636 =$



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

1 Complete the column subtractions.

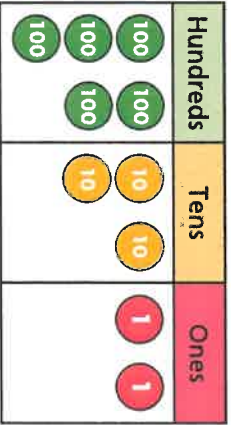
a) $254 - 126$



	H	T	O
	2	5	4
-	1	2	6

What exchange did you have to make?

b) $532 - 281$



	H	T	O
	5	3	2
-	2	8	1

What exchange did you have to make?

2 Which of these calculations need an exchange? Tick your answers.

	H	T	O			H	T	O			H	T	O
	6	5	8			3	2	3			4	2	9
-	1	4	4			-	1	1	7		-	1	7

How do you know?

3 Work out the subtractions.

a) $735 - 218$

	H	T	O
	7	3	5
-	2	1	8

c) $415 - 179$

	H	T	O
	4	1	5
-	1	7	9

b) $428 - 163$

	H	T	O
	4	2	8
-	1	6	3

d) $382 - 194$

	H	T	O
	3	8	2
-	1	9	4

- 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
	7	0	0
-	5	4	6

b)

	H	T	O
	8	0	5
-	1	7	9

- 6 Work out the missing digits in these subtractions.

a)

		H	T	O
		7		5
-		3	4	
			7	3

b)

		H	T	O
			2	0
-		1		8
		2	9	

- 7 Two points are marked on a number line.



What is the difference between the two points?



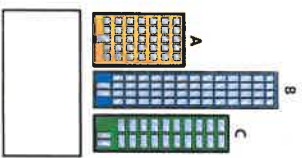
- 8 Find the missing numbers.

a) $179 + \square = 595$ c) $95 + \square + 138 = 870$

b) $718 - \square = 348$ d) $\square - 446 = 503$

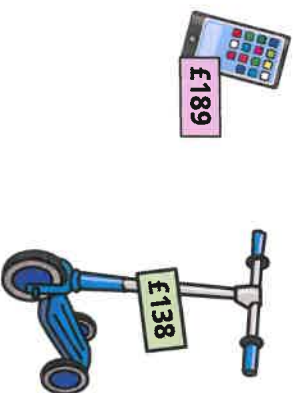
- 9 Here are 3 buildings.

- 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?

Estimate answers to calculations



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 308 is close to

My estimate for the number of people in total is

$$\boxed{} + \boxed{} = \boxed{}$$

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

Was it a good estimate? How do you know?

2 Estimate the answer to $395 + 49$

395 is close to 49 is close to

My estimate is

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
$705 - 194$		
$511 - 97$		
$187 + 203 + 19$		

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

- 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.

- 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.

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

- 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.



- 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? _____

Explain your answer.
