Maths Planning and Ideas

Week Commencing: 08.06.2020

Year Group: Year 3

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	LC: Can you add two 3-digit numbers - crossing 10 or 100?	LC: Can you subtract a 3-digit number from a 3-digit number (1)?	LC: Can you subtract a 3-digit number from a 3-digit number (2)?	LC: Can you estimate answers to calculations?	LC: Can you problem solve calculations?
Activity	**Starter:** Times Table Rockstars Battle of the Bands have been set for Y3 children. Don't forget to use Rock Slam to individually challenge others in your class or year group. **Main:** Go to the following website: https://vimeo.com/420240608 Watch the video. Pause if you need to take notes or replay sections to help with understanding. **Independent Task:** Children to complete activity found in resources Answers can be found in resources	**Starter:** Times Table Rockstars Battle of the Bands have been set for Y3 children. Don't forget to use Rock Slam to individually challenge others in your class or year group. **Main:** Go to the following website: https://vimeo.com/420240853 Watch the video. Pause if you need to take notes or replay sections to help with understanding. **Independent Task:** Children to complete activity found in resources Answers can be found in resources	**Starter:** Times Table Rockstars Battle of the Bands have been set for Y3 children. Don't forget to use Rock Slam to individually challenge others in your class or year group. **Main:** Go to the following website: https://vimeo.com/420240964 Watch the video. Pause if you need to take notes or replay sections to help with understanding. **Independent Task:** Children to complete activity found in resources Answers can be found in resources	**Starter:** Times Table Rockstars Battle of the Bands have been set for Y3 children. Don't forget to use Rock Slam to individually challenge others in your class or year group. **Main:** Go to the following website: https://vimeo.com/420241173 Watch the video. Pause if you need to take notes or replay sections to help with understanding. **Independent Task:** Children to complete activity found in resources Answers can be found in resources	**Starter:** Times Table Rockstars Battle of the Bands have been set for Y3 children. Don't forget to use Rock Slam to individually challenge others in your class or year group. **Main:** No video today it is challenge day. **Independent Task:** Children to complete activity found in resources Answers can be found in resources

In this week's planning the children will be recapping previous learning from earlier this year. The idea behind this is to consolidate children's understanding of key concepts to help prepare them for next year. We are aware that some children may already have a sound understanding of some of these areas of learning, while others will still need to practise them. For any children who are very confident in working through the White Rose worksheet, I have attached some additional activities at the bottom of the planning to further deepen children's understanding.

Where can I complete further work?

Twinkl – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, powerpoints and interactive games to support all areas of learning.

Classroom Secrets – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

White Rose Maths – Free Maths home learning resources for all ages. Watch the videos and try the questions.

Primary Stars – Free Maths home learning packs for Year 1 and 2.

BBC Bitesize Primary – Free learning resources available for KS1 and KS2 across all subjects.

I See Maths – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

Top Marks – Free educational resources and games for English and Maths.

ICT Games – Free educational resources and games for English and Maths.

Monday 08.06.2020

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	7	

b) 372 + 144

Hundreds	Tens	Ones
+		

		H	T	O	
		3	7	2	
	+	1	4	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
100 100 100	10 10 10	1 1 1 1 1
+ 100 100	10 10 10 10 10 10 10	1 1 1 1 1 1

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	

b)

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

c) 718 + 108

d) 526 + 294

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	

b)

		H	T	O	
		1	0	9	
	+		2		
		5		5	

c)

		H	T	O	
		2	7	8	
	+	2	5		
				0	

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:

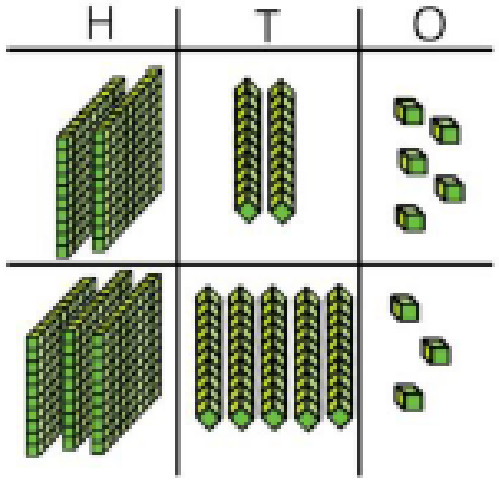
- 1 exchange
- 2 exchanges.

Compare answers with a partner.

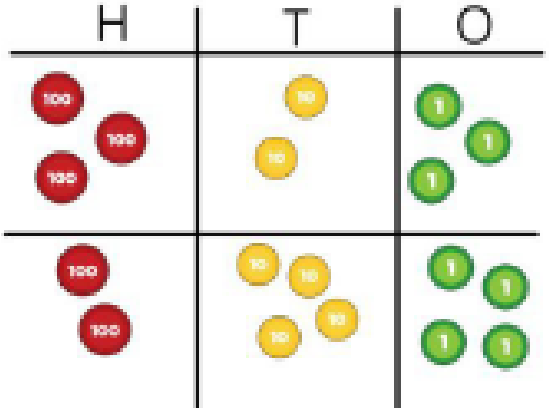
Monday 08.06.2020

1) Which creates an answer of 567?

a)



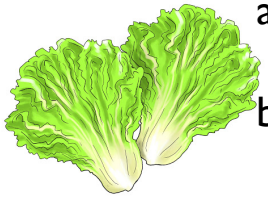
b)



2)

In May Whitney planted 164 lettuces in the school garden. In July she planted 327 more lettuces than she did in May.

a) How many lettuces did she plant in July?



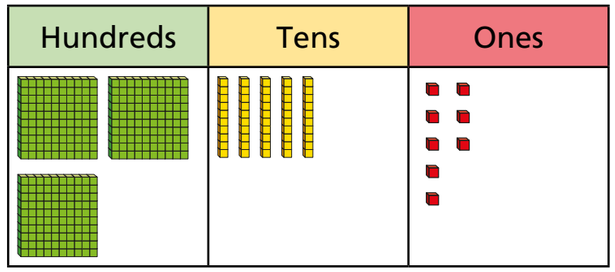
b) How many lettuces did she plant altogether?

Tuesday 09.06.2020

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

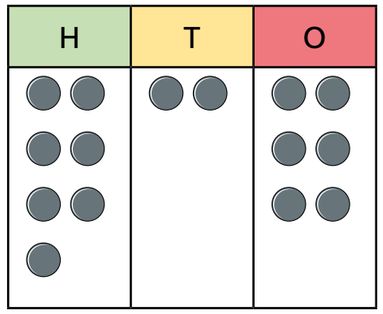
1 Complete the column subtractions.

a) 358 – 226



		H	T	O	
		3	5	8	
	–	2	2	6	

b) 726 – 303



		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?

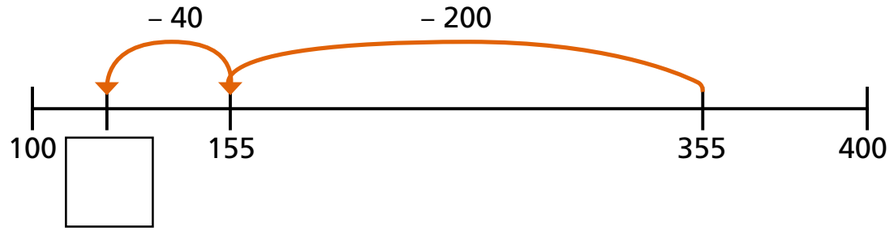
Why?

_____

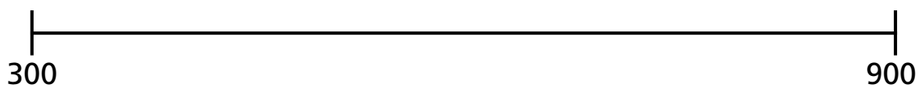
_____

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?

a)

	6	★	8
−	★	▲	▲
	●	1	5

★ = ☐

● = ☐

▲ = ☐

b)

	9	✚	◆
−	✚	4	⬟
	◆	⬟	◆

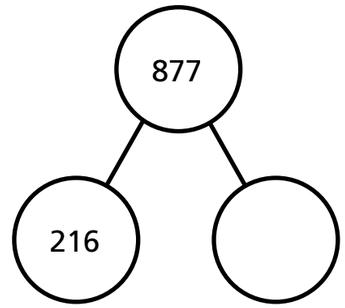
✚ = ☐

◆ = ☐

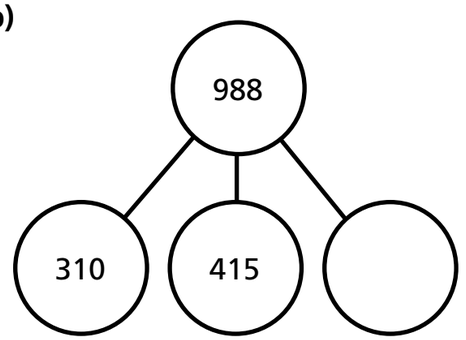
⬟ = ☐

8 Complete the part-whole models.

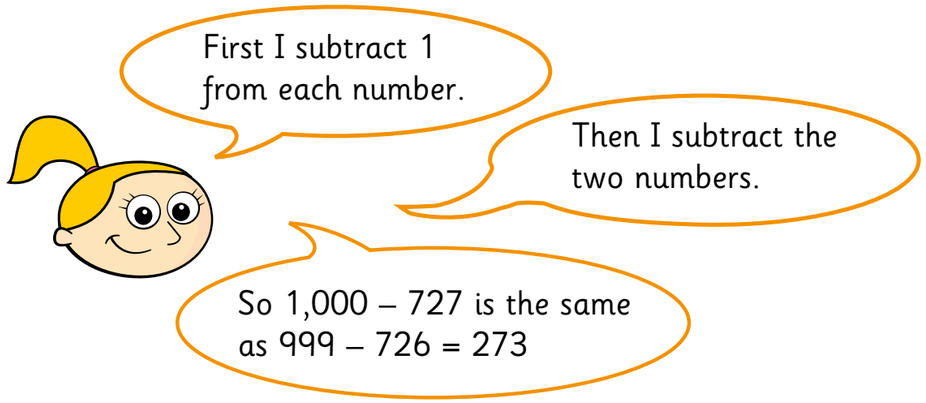
a)



b)



9 Eva is subtracting 727 from 1,000



Why does Eva's method work?

Talk about it with a partner.

Use Eva's method to complete the subtractions.

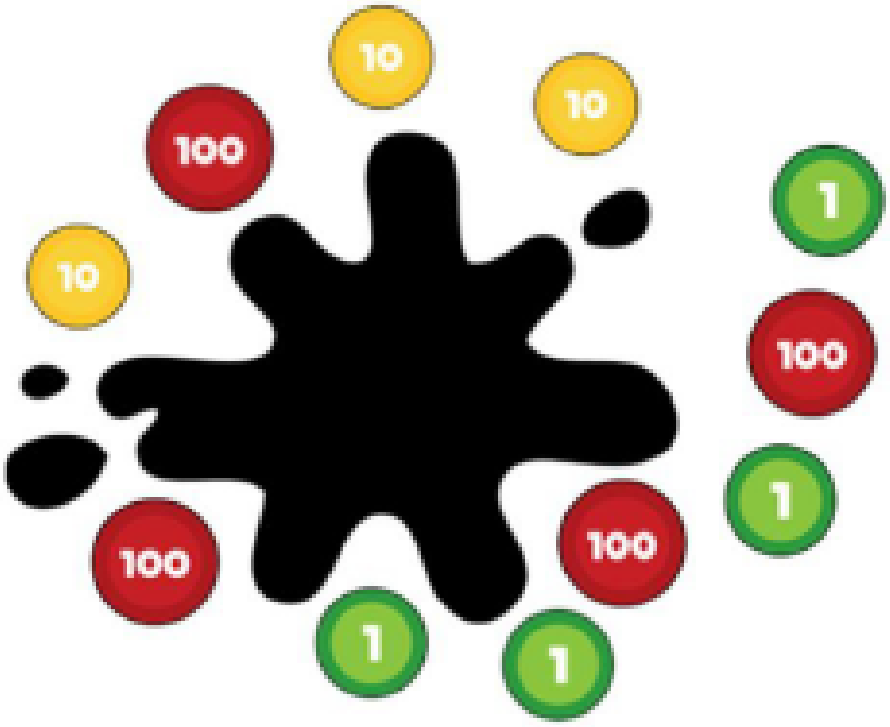
1,000 – 285 = ☐

1,000 – 188 = ☐

800 – 636 = ☐

Tuesday 09.06.2020

1) There are 566 in counters altogether but the splat is covering some.



How many different ways can you make the missing amount?

Wednesday 10.06.2020

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

1 Complete the column subtractions.

a) 254 – 126

Hundreds	Tens	Ones
100 100		

		H	T	O	
		2	5	4	
	–	1	2	6	

What exchange did you have to make?

b) 532 – 281

Hundreds	Tens	Ones
100 100 100 100 100	10 10 10	1 1

		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	
		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	

b) 428 – 163

		H	T	O	
		4	2	8	
	–	1	6	3	

c) 415 – 179

		H	T	O	
		4	1	5	
	–	1	7	9	

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 + ☐ = 595

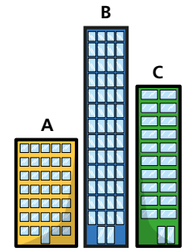
b) 718 – ☐ = 348

c) 95 + ☐ + 138 = 870

d) ☐ – 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?

Wednesday 10.06.2020

1)

Work out the missing digits.

	H	T	O
	5	?	3
−	2	1	8
	3	1	5

	H	T	O
	?	0	?
−	2	?	8
	2	4	6

2)

Kassie is working out 406 − 289

Here is her working out:

$$\begin{array}{r} {}^{3}\cancel{4}\,0\,{}^{1}6 \\ -\,2\,8\,9 \\ \hline 7 \end{array} \qquad \begin{array}{r} {}^{2}\cancel{3}\,{}^{1}0\,{}^{1}6 \\ -\,2\,8\,9 \\ \hline 0\,2\,7 \end{array}$$

Explain her mistake.

What should the answer be?

Thursday 11.06.2020

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

☐ + ☐ = ☐

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.

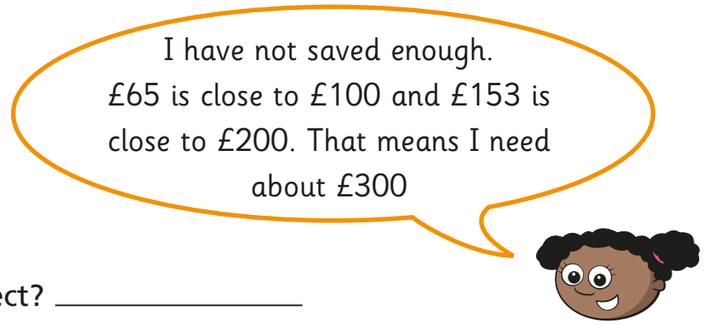
A glass has a capacity of 495 ml.

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

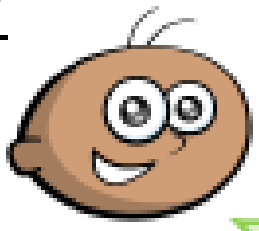


Is Whitney correct? _____

Explain your answer.

Thursday 11.06.2020

1)



Tommy

I estimate 143 – 95 will be 50 because I will subtract 100 from 150

Is this a good estimate? Why?

Are there any other ways he could have estimated?

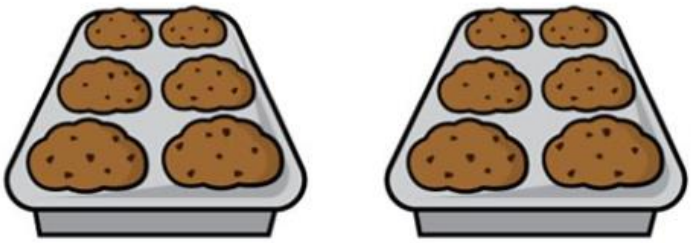
2) Use the number cards to make different calculations with an estimated answer of 70

121	33	48	41
398	328	255	

Friday 12.06.2020

Challenge 1

Eric bakes these two trays of muffins.



He eats 2 muffins.

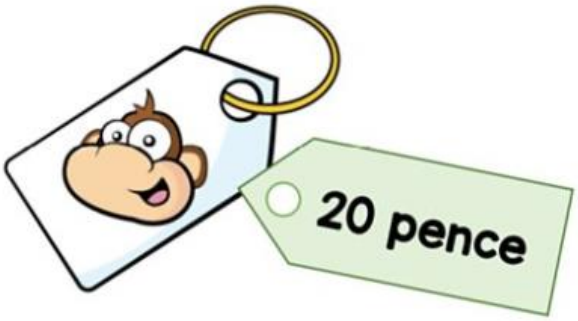
His dad eats 3 muffins.

His sister eats 4 muffins.

How many muffins does he have left?

Challenge 2

Lola buys this key ring.

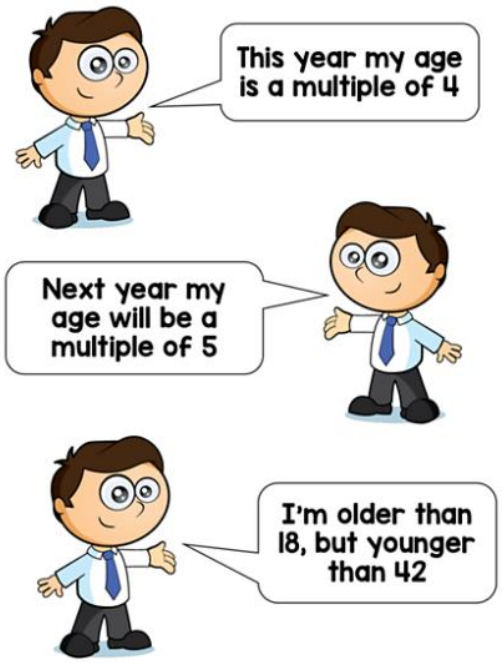


Her mum givers a quarter of the money.

She pays for the rest herself.

How much does she pay herself?

Challenge 3



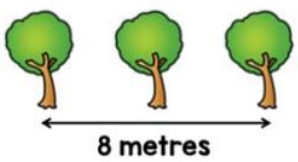
How old is the teacher?

Challenge 4

Ten trees are planted in a row.

The trees are spaced out equally.

The distance between the fourth and sixth tree is 8 metres.



What is the distance between the first and last tree?