Maths Planning and Ideas

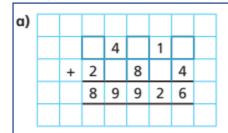
Week Commencing: 15.6.20 Year Group: Year 5

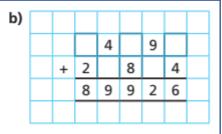
This week's planning will be recapping previous learning from earlier this year. The idea behind this is to consolidate children's understanding of key concepts in order to help prepare them for next year. We are aware that some children may already have a sound understanding of some of these areas of learning, while others will still need to practise them. I have tried to include examples of Fluency and Reasoning and Problem Solving activities similar to what we complete in class. For any children who are very confident in working through the worksheets, I have added some Dive Deeper activities in the blue boxes for each day to deepen children's understanding

Times Table Rockstars website - https://ttrockstars.com/

	Monday	Monday Tuesday		Thursday	Friday
Area of Learning	LC: Can you add numbers using column addition?	LC: Can you subtract numbers using column subtraction?	LC: Can you round numbers to estimate answers?	LC: Can you use inverse operations?	Arithmetic Test
Activity		Starter – Times Table Rockstars activities	Table Rockstars activities Main Teaching		Starter – Times Table Rockstars a ctivities
	This lesson is all about adding numbers using column addition. It will include exchanging (eg 'numbers on the doorstep!') Watch the video and	will include exchanging ('borrowing'). Watch the video	rounding to estimate answers. This is a very useful skill to learn, even though it might seem unusual at first.	say in class – inverse means the opposite. Watch the video	Complete the arithmetic test. You may want to complete this on
	a place value grid and counters. https://vimeo.com/425568996		https://vimeo.com/425569901 Fluency – estimate the answers to the questions about the table.	Fluency – match up the inverse operations Reasoning – can you work out	a scrap piece of paper as there are lots of pages to print out.
	Fluency — complete the column addition questions. You may want to work them out on a scrap piece of paper. Problem Solving — solve the football problem	to work them out on a scrap piece of paper. Reasoning – look carefully at the	Round the answers to the nearest 1000 to estimate. Reasoning – read the estimates that the children have made. Answer the questions about them. Dive Deeper – use estimation to	where Tommy has gone wrong with his inverse calculation? Problem Solving – What number did Alex start with? Use inverse operations to 'work backwards' to find out the answer	The answers are included at the end.

Monday Worksheet





The table shows the number of home and away fans attending three football matches.

Match	Home fans	Away fans
1	53,640	12,930
2	42,630	18,340
3	35,480	32,490

Which match had the greatest total attendance?

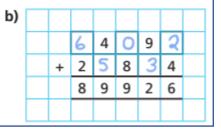
Monday Answers

1	11884
2	10053
3	10483
4	10336
5	18753
6	10467
7	18260
8	14852

Which match had the greatest total attendance?

•	Com	plet	e ti	ne (aa	dit	ıor	ıs.

ı)							
		6	4	1	1	2	
	+	2	5	8	1	4	
		8	9	9	2	6	



Tuesday Worksheet

Mr Hall has written these subtractions on the board.

Rosie's workings

Whitney's workings

Here are some digit cards.







Ron makes a 4-digit number with the cards.

Eva makes a 4-digit number with the cards.

The difference between their numbers is between 1,000 and 3,000

What numbers could Ron and Eva have made?

Explain the mistakes that Rosie and Whitney have made.

Tuesday Answers

1	3976
2	652
3	3439
4	930
5	1698
6	1165
7	661
8	7818

Rosie has put the larger number under the smaller number.

Whitney has completed the tens column incorrectly (4-5)

There are multiple answers you could give here. Make sure the answers are four digit numbers and the difference between them is between 1000 and 3000 (eg, 8591 and 9815).

Wednesday Worksheet

Use your rounding to estimate the answers to the following questions.

It might be a good idea to round to the nearest 1000.

The table shows the number of people of different ages living in three towns.

	Town A	Town B	Town C
Under 16	3,765	8,283	10,301
16 to 65	35,835	14,100	24,554
Over 65	1,949	9,821	656

- a) How many people live in Town A _____
- b) How many people live in Town B
- c) How many people live in Town C _____
- d) How many under 16 year olds live in all towns _____
- e) How many 16-65 year olds live in all towns
- f) How many over 65 year olds live in all towns ____

Mr Khan writes this question on the board.

7,395 - 711

Dexter's estimate is 7,000 - 1,000 = 6,000

Whitney's estimate is 7,400 - 700 = 6,700

Whose estimate do you agree with? _____

Explain your answer.

Work out the actual answer.

Whose estimate was the closest? _____

Mo has made a mistake with this calculation.

Use rounding and approximating to show how you know.

Wednesday Answers

Fluency – I rounded these to the nearest 1000 – if you rounded them to a different number your answers will be different to mine.

- a) 42,000
- b) 32,000
- c) 36,000
- d) 22,000
- e) 75,000
- f) 13,000

Mo has made a mistake with this calculation.

Use rounding and approximating to show how you know.

Mo's answer is too big.

Mr Khan writes this question on the board.

7,395 – 711

Dexter's estimate is 7,000 - 1,000 = 6,000

Whitney's estimate is 7,400 - 700 = 6,700

They have both correctly estimated they have just

Work out the actual answer.

Whose estimate was the closest? _khitney_____

Thursday Worksheet

Match the inverse calculations.

$$2,482 + 6,428 = 8,912$$

$$5,984 - 3,172 = 2,812$$

$$8,912 - 6,428 = 2,482$$

$$9,483 - 5,271 = 4,212$$

$$8,912 - 5,271 = 3,641$$

$$8,912 = 3,641 + 5,271$$

$$5,984 = 3,172 + 2,812$$

Tommy works out 12,350 + 7,903 incorrectly.

Tommy checks his calculation using the same addition.

Is this a good idea? Talk about it with a partner.

What calculation should he do? Correct Tommy's answer.



Alex thinks of a number.



What number did Alex start with?

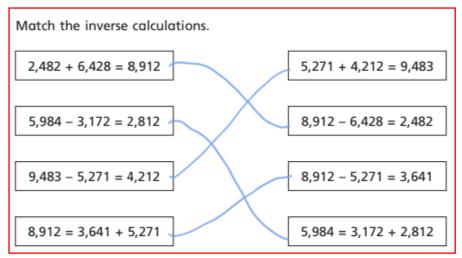
Here is a bar model.

	20,000	
3,729		8,451

Think of two different ways that you can find the missing part.

What is the missing part?

Thursday Answers



Tommy checks his calculation using the same addition.

Is this a good idea? Talk about it with a partner.

What calculation should he do? Correct Tommy's answer.

Tommy	shoul	d	do		91	,38	Ö.	- 1	2,3	50	c	und	reali	se	he
is wrong									Ĺ						
		1 8	2 :	3	5	0									
			7 9	9	0	3						20	0,253		
		2 (0 3	2	5	3									
		1													

Here is a bar model.



You could do 20,000 - 8451 - 3729 OR 3729 + 8451 = 12,180 then 20,000 - 12,180

