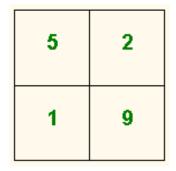
Year 4 maths week 2							
5 days of problem solving	Day 1 Activity	Day 2 Activity	Day 3 Activity	Day 4 Activity	Day 5 Activity		
Factual fluency (to aid fluency)	https://www.topmarks.co.uk/maths- games/daily10 daily 10-level 4-multiplication- mixed tables up to x12	https://www.topmarks.co.uk/maths- games/daily10 Daily 10-Level 4- multiplication- mixed tables up to x12	https://www.topmarks.co.uk/maths- games/daily10 Daily 10-Level 4- multiplication- mixed tables up to x12	https://www.topmarks.co.uk/maths- games/daily10 Daily 10-Level 4- multiplication- mixed tables up to x12			
Problem/activity of the day	 1, 2, 3, 4, 5, 6, 7, 8, 9 Draw a grid of 4 boxes. Choose four digits from the digits above and put one digit in each box to give you four 2-digit numbers (example below) Explore: What different totals can you make? Challenge: Find four different digits that give you four 2-digit numbers which add to a total of 100. 	Roll a dice 8 times (or use digits 1, 2, 2, 3, 4, 5, 6, 6) to make two 4-digit numbers. Or use: https://www.random.org/di ce/?num=1 Create a subtraction calculation. Put the highest digit at the start of the first number in your calculation. Use the formal written method to solve (layout below). Complete 8 different formal subtraction calculations.	Use the formal method (layout below) to complete the following calculations: 1. 213 x 3 = 2. 325 x 3 = 3. 267 x 2 = 4. 346 x 5 = <u>Finished? Well done!</u> Write an explanation of how you solved question 1.	My friend says she used this fact: $63 \div 9 = \$ to work out this fact: $63 \div 7 = \$ Complete the calculation and explain how these facts could have been linked by my friend.	How close can you get to 4500? x 7 Using the digits 3, 4 and 6 in the calculation above how close can you get to 4500? Use the formal written method to try it out. Explore: What is the largest product? What is the smallest product?		
Resources you will need	Paper and pencils Draw a 2 x 2 grid (below)	Dice (or digits above) Paper and pencil	Paper and pencil	Paper and pencil	Paper and pencil Formal layout below		
Tips, clues or methods to help	Sor Go through the digits methodically. Need help with calculation? Check: Draw a place value chart to keep the digits in place. Need help with aplaulation? Check:		Need help with calculation? Check: <u>https://www.belleville-</u> <u>school.org.uk/our-</u> <u>learning/calculation-videos</u>	Need help with calculation? Check: <u>https://www.belleville-</u> <u>school.org.uk/our-</u> <u>learning/calculation-videos</u>	Need help with calculation? Check: <u>https://www.belleville-</u> <u>school.org.uk/our-</u> <u>learning/calculation-videos</u>		
Want to check?	Use the inverse to check.	Use the inverse to check.	Use the inverse to check.	Use the inverse to check.	Use the inverse to check.		
Theme	4 operations	4 operations	4 operations	4 operations	4 operations		

See below for: 2 x 2 grid example, formal subtraction layout example, formal multiplication layout example

Additional activities below: problem solving using the 4 operations



Day 1: A 2 x 2 grid looks like this:



52 along the top row 19 along the bottom row

51 down the left-hand column 29 down the right-hand column

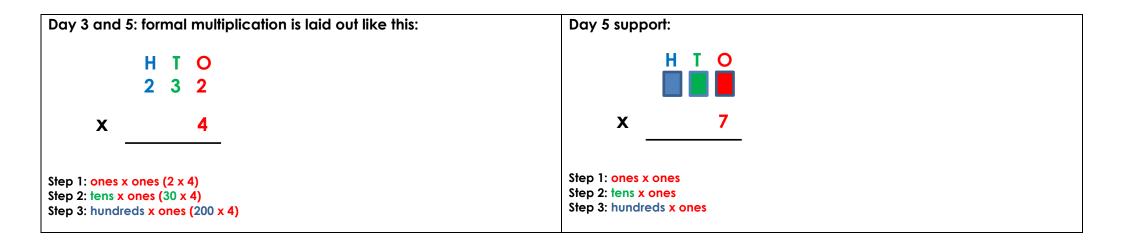
In this case, you would solve 52 + 19 + 51 + 29, and their sum is 151.

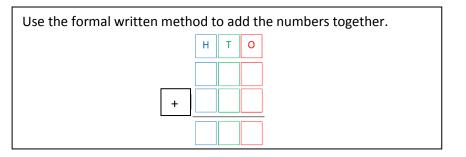
Day 2: Subtraction Dice Challenge

I rolled a dice 8 times. I generated these numbers: 2, 3, 6, 6, 2, 5, 1, 4. With these digits, I made this subtraction calculation:

<u>Th</u>	Η	Τ	0
6	2	3	2

- 5164







Additional activities:

Identify the missing numbers in these bar models. They are not drawn to scale.			ar models. They are not drawn to scale.	
1000				
	353	354		Complete this diagram so that the three numbers in each row and column add up to 140.
2000				20 50
493		754		
Select your own numbers to make this bar model correct.			ar model correct.	30
5000				
			calculations? Can you use one her calculations?	
2 × 3 =		6 × 7 =	9 × 8 =	Tom ate 9 grapes at the picnic. Sam ate 3 times as many grapes as Tom.
2 × 30 =		6 × 70 =	9 × 80 =	How many grapes did they eat altogether?
2 × 300 =		6 × 700 =	9 × 800 =	
20 × 3 =		60 × 7 =	90 × 8 =	The bar model is a useful scaffold to develop fluency in this type of question.
200 × 3 =		600 × 7 =	900 × 8 =	

