Maths task grid for Year 3 / 4 – Summer 2 Week 2

Please select the task appropriate to your child's group.

Make sure you write the short date followed by the LI above every piece of work.

|	Miss Dippie's group	Mrs Heath's group	Mrs Price/ Mrs Pittarello's group
Monday	**LI: To subtract numbers** **Starter:** Solve the puzzle. 🐄 + 🐄 = 10 🐕 + 🐄 = 14 🐹 + 🐕 = 10 🐄 - 🐹 = ? This week we are going to be revising subtraction. Another word for subtraction is takeaway, your answer should always be less. **Task:** Compete the grid. Subtract the numbers down the side of this table from the numbers along the top. One has been done for you. <table><tr><td>-</td><td>8</td><td>10</td><td>13</td><td>15</td><td>20</td></tr><tr><td>2</td><td>**6**</td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td></tr></table> **Challenge:** What is my number? I think of a number I subtract 7 and my answer is 11. What is my number?	**LI: to revise column subtraction** This year we have practised using column methods to subtract large numbers. Remember that we sometimes need to borrow from/exchange/murder(!) the digit on the left if we need to. Here is an example to remind you $$\begin{array}{ccc} {}^{3}\!\!\!\not4 & {}^{1}3 & 4 \\ - & 7 & 2 \\ \hline 3 & 6 & 2 \end{array}$$ Let's practise this today first in case we have forgotten how to do these! Choose which set you want to have a go at. 1) 143 - 14 = 2) 183 - 26 = 3) 204 - 65 = 4) 367 - 138 = 5) 471 - 159 = 6) 627 - 108 = 7) 865 - 636 = 8) 557 - 468 = 9) 544 - 215 = 10) 644 -315 = 1) 1337 - 168 = 2) 2451 - 279 = 3) 1815 - 536 = 4) 1346 - 187 = 5) 2541 - 1362 = 6) 4736 - 2568 = 7) 5814 - 3569 = 8) 4336 - 2157 = 9) 3456 - 3288 = 10) 4444 - 2255 =	**LI: Subtracting hundreds / tens /ones from a number** This year we have done lots of column subtraction with numbers up to 4 digits. Remember we start with the units and always subtract the bottom number from the top number. Sometimes we need to exchange (borrow) from the digit on the left if the top digit is smaller. Here is an example: **Without exchange:** **With exchanging:** Without exchange: <table><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>3</td><td>4</td><td>5</td><td>4</td></tr><tr><td>-1</td><td>2</td><td>2</td><td>4</td></tr><tr><td>2</td><td>2</td><td>3</td><td>0</td></tr></table> With exchanging: <table><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>5</td><td>6</td><td>${}^{3}\!\!\!\not4$</td><td>${}^{1}3$</td></tr><tr><td>-4</td><td>3</td><td>1</td><td>6</td></tr><tr><td>1</td><td>3</td><td>2</td><td>7</td></tr></table> If you want to recap you can try these questions first or go onto the word problems: A) 7839 – 3518 B) 4609 - 2107 Now try solving this word problems: There are 3,597 boys and girls in a school. 2,182 are boys. How many are girls? Car A travels 7,653 miles per year. Car B travels 5,612 miles per year. How much further does Car A travel than Car B per year? Challenge:

There are counters to the value of 3,470 on the table but some have been covered by the splat.
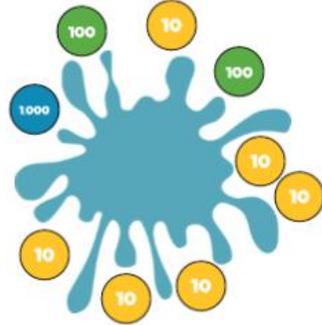
What is the total of the counters covered?
How many different ways can you make the missing total?

Tuesday	**LI: To subtract 3 numbers**	**LI: to solve problems involving subtraction**	**LI: Column subtraction with exchanging**
	Starter: How many triangles can you see in the picture?		Today we will focus on exchanging or borrowing as we sometimes call it. Remember, if the top number is smaller, borrow from the next door neighbour (digit on the left). Can you spot the error in this calculation?
		There are lots of words that mean the same as subtract Difference, less, minus, how many more than Solve these using column subtraction for each one.	
	Task: When subtracting 3 digits start with the first two values on the left then subtract the final number. It is important to keep the numbers in the correct order and move from left to right. You may want to use a number line to help you. **E.g.** $8 - 4 - 2 = ?$ $8 - 4 = 4$ $4 - 2 = 2$ The answer = 2. a) $10 - 3 - 5 =$ b) $12 - 6 - 1 =$	1) What is 334 minus 252? 2) What is 193 less than 460? 3) What is the difference between 312 and 124? 4) What is 272 less than 510? 5) What is 602 subtract 79? 6) What is the difference between 375 and 167? 7) What 819 take away 503? 8) What is 925 minus 88? 9) What is 908 subtract 379? 10) What is the difference between 850 and 619?	$$\begin{array}{r} ^{5\,1}\!\!\not{6}28 \\ -\ 56 \\ \hline 582 \end{array}$$ Correct the calculation and write a sentence to explain where they went wrong. Now try solving these problems:
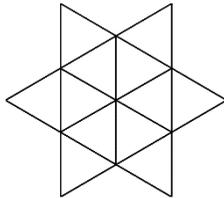
c) 15 − 5 − 4 =

d) 20 − 6 − 4 =

e) 25 − 7 − 5 =

Challenge: Starting at the ringed number, subtract the numbers in a trail to reach the answer at the bottom of the grid.

(10)	1	4
3	6	4
1	2	3
	−	(1)

Challenge

	H	T	O
	5	?	3
−	2	1	8
	3	1	5

A shop has 8,435 magazines.
367 are sold in the morning and 579 are sold in the afternoon.

How many magazines are left?

8,435		
367	579	?
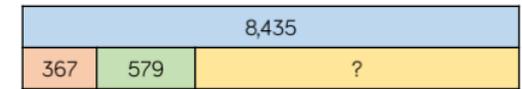
There are ____ magazines left.

1,235 people go on a school trip.

There are 1,179 children and 27 teachers.
The rest are parents.

How many parents are there?

Explain your method to a friend.

Amir and Tommy solve a problem.

When I subtract 546 from 3,232 my answer is 2,714
Amir

When I subtract 546 from 3,232 my answer is 2,686
Tommy

Who is correct?
Explain your reasoning.
Why is one of the answers wrong?

| Wednesday | **LI To subtract tens** **Starter:** Complete the table. | **LI : to choose the most appropriate method** | **LI: To solve missing number problems with subtraction** |

Take from 20	
12	8
3	
6	
14	
17	

Today we are going to look at subtracting two-digit numbers. We are only looking at subtracting from the ten's columns. Apply your knowledge of number bonds to help you. Subtract from the tens column only and retain the ones.

E.g. 27 – 10 = 17

Watch this video to help you:

https://www.youtube.com/watch?v=vB09HIcNzC4

Task:

1. 40 - 10 =
   43 - 10 =
   44 - 10 =
   46 - 10 =

2. 50 - 30 =
   55 - 30 =
   56 - 30 =
   59 - 30 =

3. 70 - 40 =
   74 - 40 =
   77 - 40 =
   78 - 40 =

Challenge:

Remember column method is great if the numbers are big and we can't do the sum in our head. BUT it is quicker to do it in your head if you can.

Solve these by putting the larger number in your head and counting backwards

345 – 6   387 - 8
767 – 8   300 - 7
856 – 4   156 – 7

When we are subtracting 9 from any number it is easier to subtract 10 and then add one more back on
Eg 36 – 10 = 26 +1 = 27

Use a dice to generate 6, 3 digit numbers. Write them in your book and subtract 9 from them.

We can do the same when we are subtracting 90. We can take away 100 and then add back on 10 eg 456 – 90
            456 – 100 – 356
            356+10 = 366

Use a dice to generate 6, 3 digit numbers. Write them in your book and subtract 90 from them.

Challenge

	H	T	O
	?	0	?
–	2	?	8
	2	4	6

Use your knowledge of column subtraction to work out what the missing numbers are in these calculations.

a) ^{6}7 ^{1}2 ☐
    - 3 6 5
    ☐ 6 4

b) 7 ☐ ☐
    - ☐ 0 0
      4 4 6

c) 9 ☐ 5
    - 5 1 ☐
      3 9 4

d) 5 ^{7}8 ^{1}3
    - ☐ ☐ ☐
      1 3 9

e) 3 ☐ ☐
    - ☐ 2 3
      9 6 ☐

f) ☐ ☐ 1
    - 2 ☐ 3
      1 0 4

g) 2 8 ☐
    - ☐ ☐ 0
      1 7 9

h) ☐ ☐ ☐
    - 7 7 7
      1 7 2

Challenge Questions

1. 6 ☐ 4 8
   - 5 ☐ ☐
   6 1 4 2

2. 8 5 ☐ 4
   - ☐ 0 ☐
   7 8 7 7

3. 7 2 8 ☐
   - ☐ ☐ 3
   6 4 7 0

4. 4 8 ☐ 0
   - ☐ 9 ☐
   4 4 4 3

5. 4 ☐ 4 ☐
   - 1 ☐ 4
   4 3 5 4

6. 8 0 ☐ 1
   - ☐ 1 ☐
   7 9 8 0

|			
	A farmer has 26 cows, which he keeps in 3 fields. After counting 12 in the first field and 5 in the second, how many cows would he expect to find in the third?		
Thursday	**LI: To subtract using column method.** **Starter:** Can you fill in the missing numbers so that each column and row make a total of 100? |	50	20

10		40 |
		
		Today we are going to be looking at column method. You have already learnt to add using column addition, were going to use the same method with subtraction. Today we are going to look at 2-digit numbers. Remember to always start with the 'ones' first then Subtract the tens column. Put T O above your columns to help you.
		
		Task: T O
		
		a.
		  3 3
		- 1 1
		
		b.
		  2 5
		- 1 3
		
		c.
		  1 6
		- 1 0
		
		d.
		  2 7
		- 1 6
		
		e.
		  2 9
		- 1 2
		
		f.
		  2 6
		- 1 3
			LI: To subtract multiple of 10s from a 3 digit number.
			
			In your book start at 425 and count back in 10s until you reach 115.
			Repeat starting at 932 and counting back to 702.
			
			When we are subtracting multiples of 10 we can often do this in our head as long as we can count backwards in 10s.
			If I do 345 – 50, I know I have to count back in 5 jumps of 10.
			345, 335, 325, 315, 305, 295
			
			  10 10 10 10 10
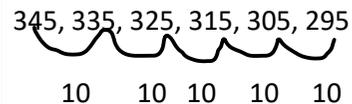			
			Solve these questions
			
			131 - 80 =
			224 - 60 =
			357 - 90 =
			413 - 30 =
			537 - 50 =
			612 - 70 =
			727 - 60 =
			933 - 90 =
			
			134 - __ = 74
			213 - 80 =
			___ - 70 = 136
			403 - 30 =
			___ - 90 = 486
			619 - 20 =
			717 - __ = 647
			941 - 50 =
				LI: To solve problems using subtraction
				
				1. Subtract 6725 from 8053.
				2. Calculate the difference between three thousand, two hundred and twelve, and two thousand and forty-six.
				3. What number is 5002 less than 7001?
				4. Decrease £76.83 by £22.71.
				5. Decrease 2973 by 628.
				6. What is added to £45.62 to make £87.00?
				7. What number is four thousand, six hundred and twelve minus nine hundred and sixty?
				8. Take £6712 from £8000.
				9. If I increase a number by 2097 and get 4651, what number did I start with?
				10. Add together 5892 and 3015, then subtract 6719.
				11. How much smaller is 4237 than 5138?
				
				Challenge
				Using the digits 1-8, how many different ways can the digits be arranged to make 2 numbers whose sum is 9999?

Challenge: Have a go at 3-digit numbers.

1.					2.					3.			
	2	7	3			6	8	2			5	4	9
-		2	1		-		5	1		-		3	6

Friday	**LI: To subtract using column method.** **Starter:** Can you put numbers 1 to 7 in each circle so that the total in every line equals 12? 1 2 3 4 5 6 7 Today we are looking at subtracting 2-digit numbers again but this time by regrouping. This means that the digit in the one's column is too small to subtract, therefore we need to borrow or regroup form the tens column. Watch the following videos to help you understand what this is. https://www.youtube.com/watch?v=egjDLFX9VHg Here's a cool rap song that will also help you learn to regroup! https://www.youtube.com/watch?v=nku3jVLbPBw **Task:** Complete the sums by regrouping	**LI – to solve word problems for addition or subtraction** Find some books in your house – long chapter books are best. Choose two. Record how many pages they each have. Find the total number of pages they have. Find how many more one has than the other. Eg Ice Monster = 481 pages Awful Auntie = 411 pages Total pages = 892 pages Ice monster has 70 more pages than Awful Auntie. If you can do the calculation in your head then do. If you need to do a column method then that is fine too. Challenge if you need one!	**LI: Subtraction word problems** For each problem, underline the key information, write out the calculation and then solve it. 1. On Sunday I spent 144 minutes on my art project and 45 minutes on my maths homework. On Thursday evening I spent a total of 111 minutes on my homework. What is the difference between the amount of homework I did on Sunday and Thursday? 2. Dad drives a truck. Last week he drove 267 miles on Monday, 186 miles on Tuesday and 198 miles on Wednesday. This week he drove 282 miles in total . What is the difference in miles between last week and this week? 3. One bookmark costs 98p. If I buy four and pay with a £10 note, how much change will I get? 4. I got £48.50 for my birthday. I spent £12.50 on Saturday and £19.20 on Sunday. How much money have I got left? 5. Sally bought 3 photo frames each costing £7.55. How much change would she get from £30?

a.
```
  2 3
- 1 7
_____
```

b.
```
  2 6
- 1 9
_____
```

c.
```
  2 2
- 1 6
_____
```

d.
```
  3 8
- 2 9
_____
```

e.
```
  2 1
- 1 3
_____
```

f.
```
  3 3
- 1 5
_____
```

Challenge:

Use **24 + 67 = 91** to complete these:

67 + ☐ = 91   ☐ - 67 = ☐

Use the digit cards to complete the calculation.

0 3 4 4 6
7 7 8 9

☐ ☐ ▨
☐ ☐ ▨
☐ ☐ ☐

The digits in the shaded boxes are odd.

Is there more than one answer?

In the number square below, each horizontal row and vertical column adds up to 1,200
Find the missing numbers.
Is there more than one option?

897		
		832
	762	

Check the rows and columns using the inverse and adding the numbers in different orders.