Tuesday 7th July 2020   Y4 Maths

Good morning Y4s, Here is today's maths. Follow the link https://vimeo.com/430335670 and watch the teaching video **'Checking strategies'** and try the questions below.

Checking strategies

White Rose Maths

1. Circle the subtractions that can be used to check the addition 271 + 516 = 787

    787 – 271   516 – 271   271 – 787   787 – 516

2. Circle the additions that can be used to check the subtraction 2,364 – 1,202 = 1,162

    2,364 + 1,202   1,162 + 1,202   2,364 + 1,162   1,202 + 1,162

3. Use an inverse operation to check these calculations.
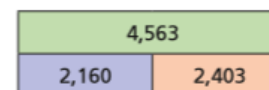
    a)
	H	T	O
	3	7	1
+	4	6	5
	8	3	6

    b)
	H	T	O
	5	6	7
−	1	5	2
	4	1	5

    c)
Th	H	T	O
	2	4	1	1
−	1	3	0	6
	1	1	0	5

4. Complete the fact family for the bar model.

4,563	
2,160	2,403

    ☐ + ☐ = ☐

    ☐ + ☐ = ☐

    ☐ − ☐ = ☐

    ☐ − ☐ = ☐

5. Teddy is working out 5,671 + 325

Th	H	T	O
	5	6	7	1
+		3	2	5
	8	9	2	1

    Teddy checks his calculation using the same addition.

    Is this a good idea? What mistake has Teddy made?

    What addition should he do? Check Teddy's calculation.

6 Match the inverse calculations.

623 + 1,240 = 1,863		2,483 − 623 = 1,860

1,860 + 1,240 = 3,100		2,483 + 617 = 3,100

1,860 + 623 = 2,483		3,100 − 1,860 = 1,240

3,100 − 2,483 = 617		617 + 1,866 = 2,483

2,483 − 617 = 1,866		1,863 − 1,240 = 623

7 Complete the calculations.

Use inverse operations to check your answers.

a) 372 + 405 =

b) 1,372 + 450 =

c) 6,572 − 2,320 =

d) 6,004 − 729 =

Challenge –   # Reach 100

Here is a grid of four "boxes":

You must choose four **different** digits from $1 - 9$ and put one in each box. For example:

5	2
1	9

This gives four two-digit numbers:

52(reading along the 1st row)
19(reading along the 2nd row)
51(reading down the left hand column)
29(reading down the right hand column)

In this case their sum is 151
Try a few examples of your own.
Your challenge is to find four **different** digits that give four two-digit numbers which add to a total of 100

How many ways can you find of doing it?

Answers

Checking strategies

1 Circle the subtractions that can be used to check the addition 271 + 516 = 787

(787 − 271)   516 − 271   271 − 787   (787 − 516)

2 Circle the additions that can be used to check the subtraction 2,364 − 1,202 = 1,162

2,364 + 1,202   (1,162 + 1,202)   2,364 + 1,162   (1,202 + 1,162)

3 Use an inverse operation to check these calculations.

a)

H	T	O
3	7	1
+ 4	6	5
8	3	6

⁷8̸	¹3	6
− 3	7	1
4	6	5̸

b)

H	T	O
5	6	7
− 1	5	2
4	1	5

4	1	5
+ 1	5	2
5	6	7

c)

Th	H	T	O
2	4	1	1
− 1	3	0	6
1	1	0	5

1	1	0	5
+ 1	3	0	6
2	4	1	1

4 Complete the fact family for the bar model.

4,563	
2,160	2,403

2,160 + 2,403 = 4,563

2,403 + 2,160 = 4,563

4,563 − 2,403 = 2,160

4,563 − 2,160 = 2,403

5 Teddy is working out 5,671 + 325

Th	H	T	O
5	6	7	1
+ 3	2	5	
8	9	2	1

5	6	7	1
+	3	2	5
5	9	9	6

Teddy checks his calculation using the same addition.

Is this a good idea? What mistake has Teddy made?

What addition should he do? Check Teddy's calculation.

6 Match the inverse calculations.

| 623 + 1,240 = 1,863 |
| 1,860 + 1,240 = 3,100 |
| 1,860 + 623 = 2,483 |
| 3,100 − 2,483 = 617 |
| 2,483 − 617 = 1,866 |

| 2,483 − 623 = 1,860 |
| 2,483 + 617 = 3,100 |
| 3,100 − 1,860 = 1,240 |
| 617 + 1,866 = 2,483 |
| 1,863 − 1,240 = 623 |

7 Complete the calculations.

Use inverse operations to check your answers.

a) 372 + 405 = $\boxed{777}$

b) 1,372 + 450 = $\boxed{1,822}$

c) 6,572 − 2,320 = $\boxed{4,252}$

d) 6,004 − 729 = $\boxed{5,275}$