Years 5 & 6 Maths Workshop

Addition and Subtraction

Expectations in Addition & Subtraction

Year 5 vs. Year 6

- I can add and subtract numbers with more than four digits using written formal methods.
- I can add and subtract 2 and 3 digit numbers in my head.
- I can use rounding to check answers to calculations and determine levels of accuracy.
- I can solve addition and subtraction problems needing more than one step and work out which operation and method is the most suitable.

- I can mentally calculate using a mix of the four operations
- I can solve problems with more than one step and operation and explain why I used them.
- I can solve addition and subtraction word and practical problems.
- I can use estimation to check answers to calculations and determine an appropriate degree of accuracy.

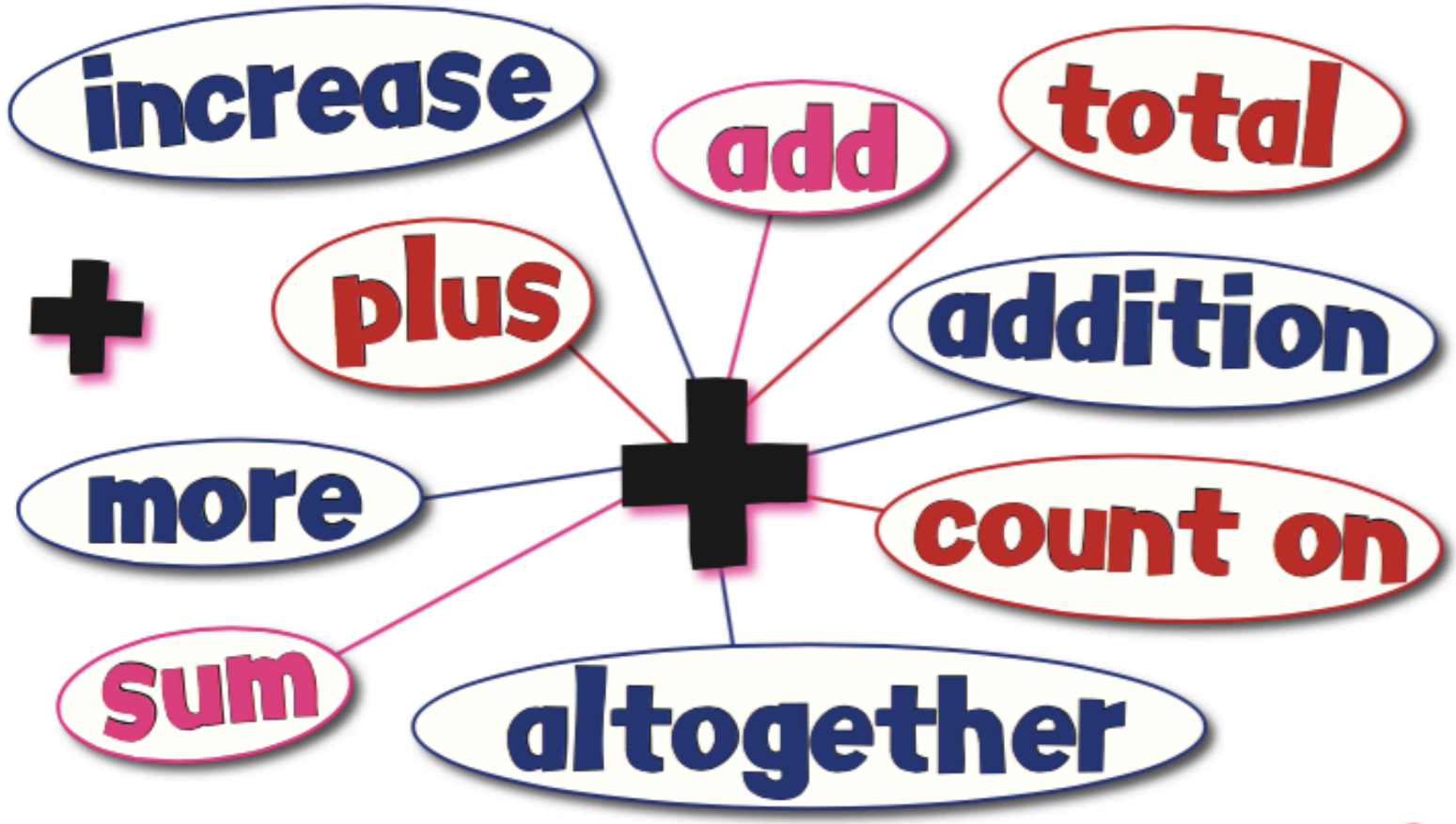
Number & Place Value links

Year 5 vs. Year 6

- I can read, write, order and compare numbers to at least 1,000,000 (one million) and say the value of each digit
- I can keep multiplying a number by 10 or 100 up to 1,000,000 and count back
- I can use negative numbers in context when looking at temperature or money; counting forwards and backwards through 0
- I can round numbers up to 1,000,000 to the nearest 10, 100, 1000, 10,000 or 100,000
- I can solve number and practical problems that involve ordering and comparing numbers to 1 000 000, counting forwards or backwards in steps, negative numbers and rounding
- I can read Roman numerals to 1000 and recognise years written in these

- I can read, write, order and compare numbers to at least 10,000,000 (ten million) and say the value of each digit
- I can round any number to a required degree of accuracy
- I can use negative numbers in context when looking at temperature or money; counting in jumps forwards and backwards through 0
- I can solve number and practical problems that involve ordering and comparing numbers to 10 000 000, rounding to a required degree of accuracy, using negative numbers and calculating intervals across zero

Addition Vocabulary



Coopers Lane Primary School

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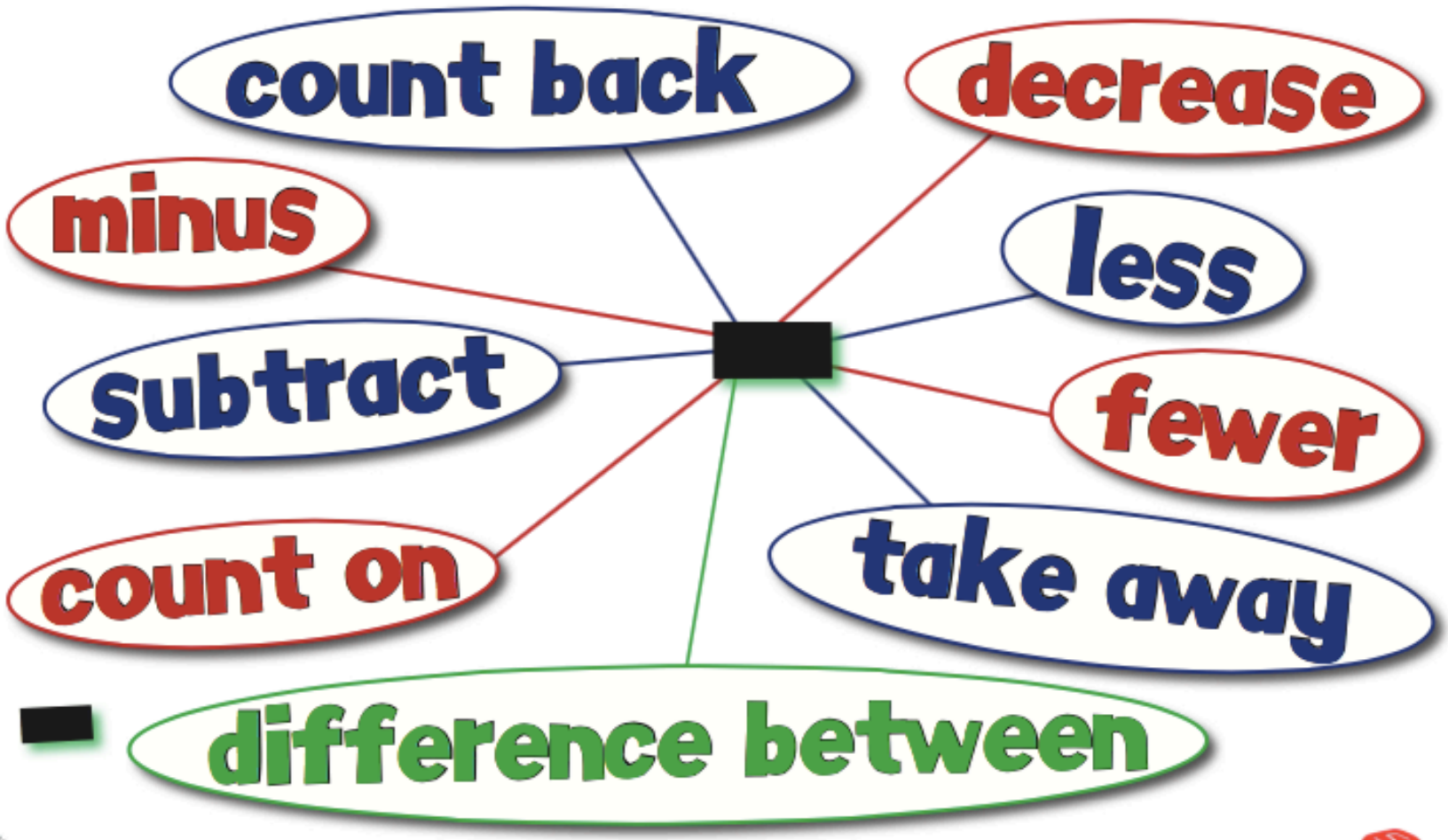
Subtraction Vocabulary



The School Run Glossary

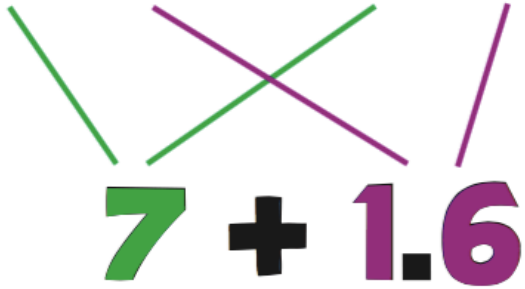
Method 1: Partition Jottings

Addition

A5f: Partition Jot

5

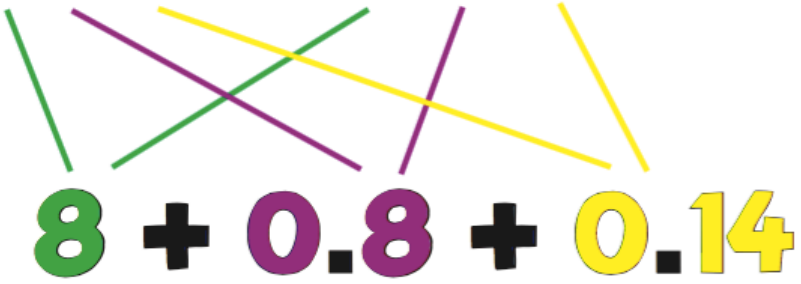
$4.8 + 3.8 = 8.6$

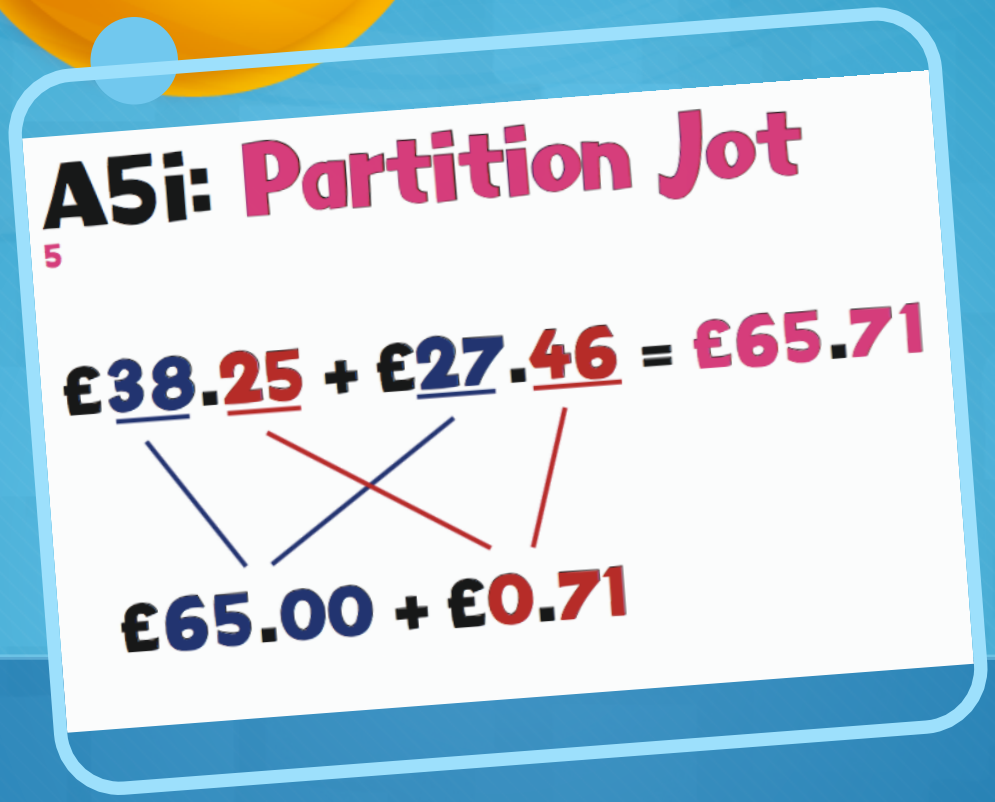


A5g: Partition Jot

5

$5.65 + 3.29 = 8.94$





£42.56 + £13.42

Method 2: Column addition

Addition

A7e: Column Addition

5

$$
\begin{array}{r}
787567 \\
+\ 446278 \\
\hline
1233845 \\
\hline
1\ 1\ 1\ \ 1\ 1
\end{array}
$$

A7g: Column Addition

5

1 . $\frac{1}{10}$ $\frac{1}{100}$

5.65

+ 3.29

8.94

1

A7j: Column Addition

With Decimals

5

73.4 + 5.67 = 79.07

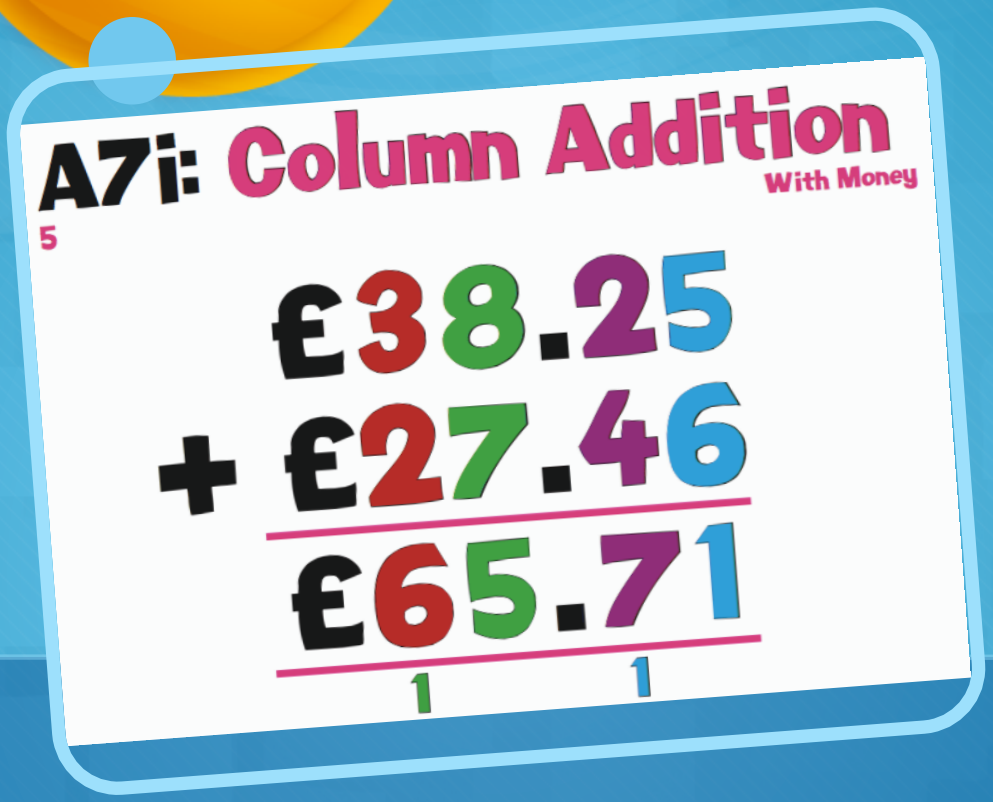
10 1 . $\frac{1}{10}$ $\frac{1}{100}$

73.4

+ 5.67

79.07

1



£21.49 + £56.21

Method 3: Counting On

Addition

MA2a: Counting On

5 Hundreds

837 + 500 = 1337

+500

837 → 1337

MA2b: Counting On

5 Thousands

7583 + 5000 = 12583

+5000

7583 → 12583

MA2a: Counting On

6

Ten Thousands

43,826 + 30,000 = 73,826

+30,000

43,826

73,826

MA2b: Counting On

6

Millions

5,763,947 + 4,000,000 = 9,763,947

+4,000,000

5,763,947

9,763,947

Method 4: Round and Adjust

Addition

MA5: Round & Adjust
5

4645 + 1996 = 6641

4645 + 2000 - 4

6645 - 4 = 6641

MA5: Round & Adjust
6

45.2 + 49.9 = 95.1

45.2 + 50 - 0.1

95.2 - 0.1 = 95.1

Method 5: Column Subtraction

Subtraction

S11: Column Subtraction

3

100	10	1
6	11	1
7	2	3
- 3	5	6
3	6	7

Year 3 expectations

Year 4 expectations

S11d: Column Subtraction

4

4	9	13	1
5	0	4	2
- 1	7	7	6
3	2	6	6

S11e: Column Subtraction

5

945,271 – 529,186 =

S11f: Column Subtraction

5

10 1 . $\frac{1}{10}$

0 12 1

~~1~~ ~~3~~ . 4

− 8 . 7

4 . 7

S11g: Column Subtraction

5

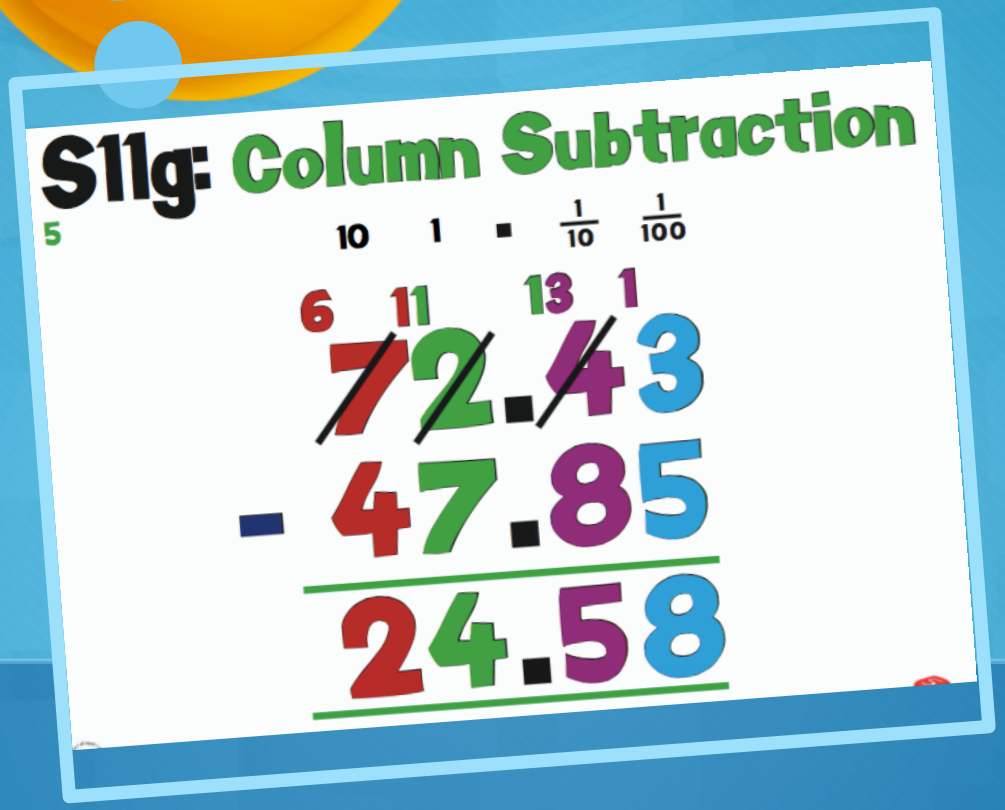
10 1 . $\frac{1}{10}$ $\frac{1}{100}$

6 11 13 1

~~7~~ ~~2~~ . ~~4~~ 3

− 4 7 . 8 5

2 4 . 5 8


S11g: Column Subtraction
5
10 1 . 1/10 1/100
6 11 13 1
72.43
- 47.85
24.58

£56.21 – £21.49 =

Education City – an app you can use at home!

Education City

Problem Solving &
RUCSAC

Problem 1

There are 38 people on the bus.
At Stop A, half of the people get off and 5 get on. At Stop B, a third of the people get off and 3 get on.

How many people are now on the bus?

twinkl

Problem 6

Krishna buys a skateboard for £13.36. He pays with a £20 note.

How much change does he receive?

Problem 12

What is the total of:

£9.87

£16.22

£5.12 ?

twinkl

Developing greater depth in Maths

Reasoning

Which Operations

- On Sunday, Jacob spent 86 minutes on his Maths homework and 37 minutes reading. On Tuesday, he spent 69 minutes on his project?

- What calculations will you use to find the difference between the time spent on homework on Sunday and Tuesday?

86 + 37 = 123 minutes on Sunday

123 – 69 = 54 minutes difference

- Write a different word problem that uses the same calculation to find the answer.

Hide Answers

Check the Answer

- Alisha has £18.35 in her purse. Her father gives her £5 pocket money. She buys a book for £7.99 and a bag for £13.49. How much will she have left?

Alisha is correct: £18.35 + £5 - £7.99 - £13.49
Jack is incorrect: £7.99 + £13.49 - £18.35. He has missed out the £5 pocket money and subtracted the money in the purse from the amount spent.

- Naomi says Alisha has £1.87 left.
- Jack says Alisha has £3.13 left.
- Who is correct and what mistakes have been made?
- What other errors might be made?

Hide Answers