

Addition and subtraction

Written methods for addition

- Line up the digits in the correct columns
- Start from RIGHT to LEFT

e.g. $48 + 284 + 9$

	H	T	U
		4	8
	2	8	4
+			9
	1	2	
	3	4	1

Written methods for subtraction

- Line up the digits in the correct columns
- Start from RIGHT to LEFT

e.g. $645 - 427$

	H	T	U
	6	4	5
-	4	2	7
	2	1	8

Mental methods for addition

- Start from LEFT to RIGHT

Example 1 - think of:

$45 + 32$ as $45 + 30 + 2$

- But in your head say:

45 75 77

Example 2 - think of:

$1236 + 415$ as $1236 + 400 + 10 + 5$

- But in your head say:

1236 1636 1646 1651

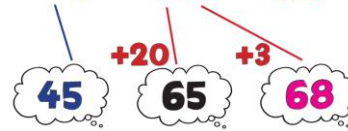
Partitioning

$$45 + 28 = 73$$

$$60 + 13 = 73$$

Counting on

$$45 + 23 = 68$$



Number bonds

$$45 + 95 = 140$$

$$40 + 100 = 140$$

Double and adjust

$$45 + 46 = 91$$

$$45 + 45 + 1$$

$$90 + 1 = 91$$

Round and adjust

$$45 + 19 = 64$$

$$45 + 20 - 1$$

$$65 - 1 = 64$$

Mental methods for subtraction

Example 1 - think of:

$56 - 32$ as $56 - 30 - 2$

- But in your head say:

56 26 24

Example 2 - think of:

$1236 - 415$ as $1236 - 400 - 10 - 5$

- But in your head say:

1236 836 826 821

Counting back

$$46 - 21 = 25$$



Counting on

$$75 - 47 = 28$$



Round and adjust

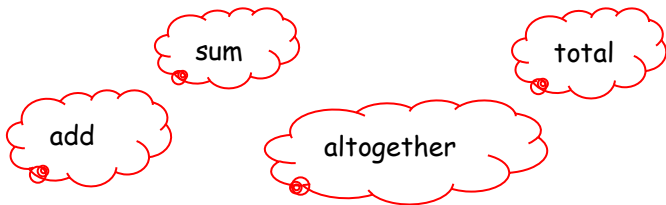
$$84 - 29 = 55$$

$$84 - 30 + 1$$

$$54 + 1 = 55$$

Multi-step word problems

Words associated with addition:



Words associated with subtraction:

