Subtraction

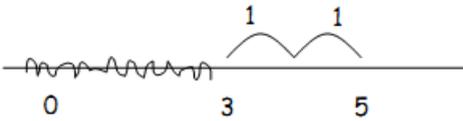|	
• Practical situations and discussion some recording of numbers • Practical counting of objects in a group • Say the number that is one less than another • Recognition of numerals and match numerals to groups of objects • Count a group of objects, take some away and count again • Record this process in preferred way	**Vocabulary** - subtract less than minus difference decrease between take away count on leave left over gone fewer half halve equals inverse
• Read and understand a number sentence using standard symbols • Understand subtraction as take-away • Write a number sentence to match a group of objects with some removed • Create own number sentence	
• Introduce subtraction as finding the difference between the numbers • Use a number line to find the difference between two numbers. • Write related horizontal number sentence	
• Use a numbered number line to do practical jumps. 'Count on' to 'find the difference' between simple numbers. 5 – 3 = ? We count on from 3 up to 5 to find the difference 1 1 0 3 5 So 5 – 3 = 2 • Reinforce inverse operations and checking of calculations • Complete missing number questions 7 - _ = 4, _ - 1 = 4	

- Move on to using higher numbers

73 – 26 =

10   10   10   10

1 1 1 1   1 1 1

26   30   70   73

Or,

40

4   3

26   30   70   73
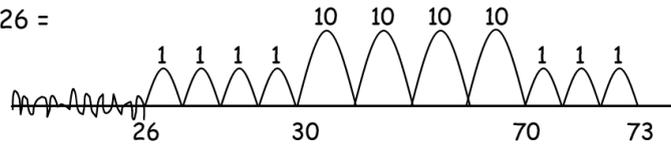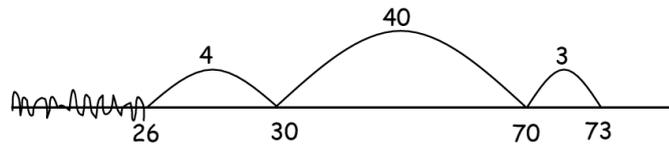
- Look at the difference between counting forwards or backwards, when is it best to counting backwards?
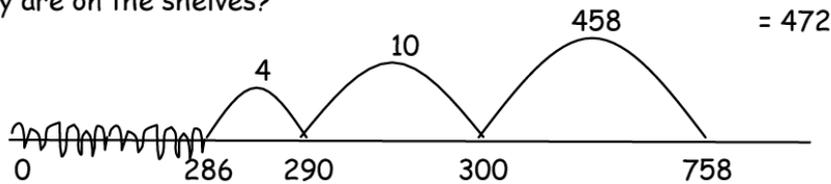
- Record counting backwards under the line.

- **Partition 93 – 76 = 93 - 70 - 6**

  93 – 70 = 23

  23 – 6 = 17

- This method is extended to larger numbers and problem solving

The library owns 758 books. 286 of them are out on loan.
How many are on the shelves?

458   = 472

10

4

0   286   290   300   758

So 758 – 286 = 472

- Partition with higher numbers

• Partition or expanded decomposition, without crossing the tens boundary initially

767 – 619 =

  700 + 60 + 7   **700 + 50 + 17**

- 600 + 10 + 9   **- 600 + 10 + 9**

• Partitioning or compact decomposition

       5   13

  3 6 3

**- 1 2 7**

Extend to 2 places of decimals

Other examples:

Money
Toby wants to buy a CD costing £8.95, he has already saved up £4.28 towards the cost. How much more money does he need to buy the CD?

£3
72p   95p   = £4.67
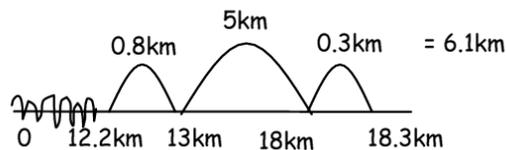0 £4.28 £5   £8   £8.95
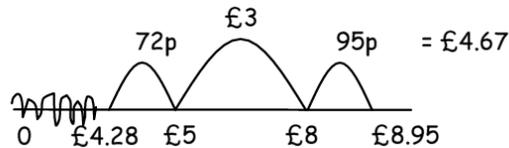
Decimals
At sports day one year, Helen completed her race in 12.24 seconds. Her older brother ran the race 8.7 seconds faster than she did. What was his time?
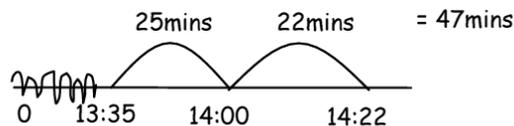
3
0.3   0.24   = 3.54
0   8.7 9   12   12.24
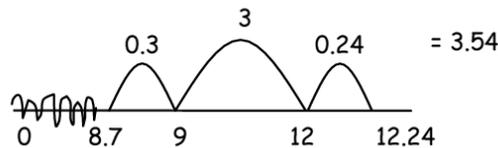
Distance
The distance from Riseley to Bedford is 12.2km and Riseley to Ampthill is 18.3km. How far is it from Bedford to Ampthill?

5km
0.8km   0.3km   = 6.1km
0 12.2km 13km   18km   18.3km

Time
James arrived at the train station at 13:35 and his train left at 14:22. How long did he wait at the station for?

25mins   22mins   = 47mins
0 13:35   14:00   14:22

Regular number bond practice and recall of facts

Make estimates for calculations

Please note:
• Use of any method is appropriate depending on the type of calculation.
• Practice choosing the most appropriate method for a variety of calculations.
• Apply methods learnt and use confidently in a range of situation.