Solving Two-Step Addition and Subtraction Word Problems

| No.	Question	Calculation required (Do brackets first!)	Method		Answer
e.g.	The cinema has 700 seats – 113 adults and 276 children come to see the film. How many empty seats are there?	700 – (113 + 276)	1 1 3 + 2 7 6 3 8 9	7 0 0 - 3 8 9 3 1 1	311 empty seats
1.	Dorothy is saving her money for a new bike costing £286. If she has already saved £39 and is then given £59 for her birthday, how much more does she need to save?				
2.	A study of 900 people found that 687 were right handed, 174 were left handed and the remainder were ambidextrous (could use either hand). How many were ambidextrous?				

3.	The crisp factory needs to make 875 bags an hour. If a machine breaks down and the factory only makes 323 bags in one hour, how many does it need to make in the next hour to catch up?		
4.	Dave earns £1485 a month as a bus driver and his wife earns £1760 as a teacher. If Dave gets a pay rise of £217 a month how much less than his wife does he earn?		
5.	If William Shakespeare was born in 1564 and lived to be 52 years old, how many years ago did he die?		

Circle sums

1. Use each of the digits 1 to 5 once.
   Replace each letter by one of the digits.
   Make the total in each circle the same.

   A   B   C   D   E
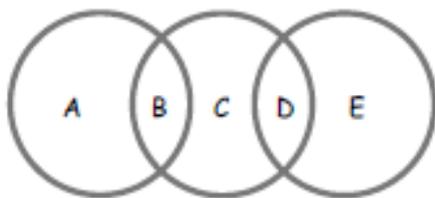
2. Now use each of the digits 1 to 7 once.
   Make the total in each circle the same.

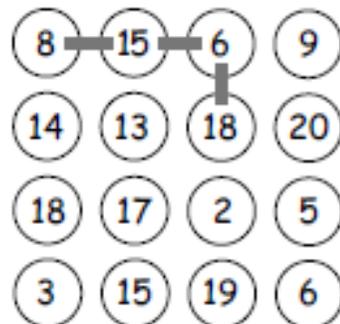   A   B   C   D   E   F   G
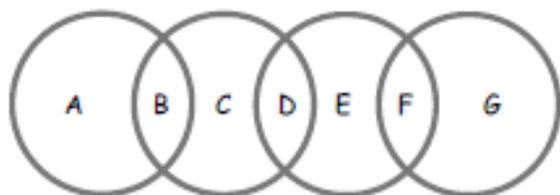
3. What if you used five circles and the digits 1 to 9?

Joins

Join any four numbers.
Find their total.
Joins can go up, down or sideways, but not diagonally.
The score shown is 8 + 15 + 6 + 18 = 47.

8	15	6	9
14	13	18	20
18	17	2	5
3	15	19	6

Find the highest possible score.
Find the lowest possible score.

Try joining five numbers.
Now try joining five numbers using only diagonal joins.
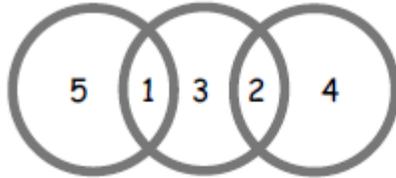
Solving Two-Step Addition and Subtraction Word Problems Answers

question		answer
1	£286 - (39 + £59)	**188 more to save**
2	900 - (687 + 174)	**39 people**
3	(875 - 323) + 875	**1427 packets of crisps**
4	£1760 - (1485 + £217)	**58 less**
5	current year - (1564 + 52)	**answer will change each year**

Answers

52 Circle sums

1.

5   1   3   2   4

or its reverse

2.

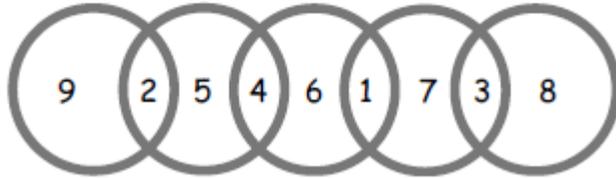7   3   2   5   1   4   6

or its reverse

3.

9   2   5   4   6   1   7   3   8
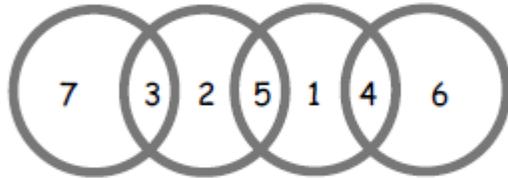
or its reverse

54 Joins

Using four numbers:
the highest score is 19 + 15 + 17 + 18 = 69,
the lowest score is 6 + 5 + 2 + 17 = 30.

Using five numbers:
the highest is 20 + 18 + 13 + 17 + 18 = 86,
the lowest is 6 + 18 + 2 + 5 + 6 = 37.

Using five numbers and diagonal joins:
the highest is 19 + 17 + 14 + 15 + 18 = 83,
the lowest is 13 + 6 + 20 + 2 + 6 = 47.