

# Mental addition and subtraction

## Sheet 1

### Part A

46 72 37 84 29 62 35 54

- Choose two pairs of numbers with a total of more than 100.
- Choose two pairs of numbers with a total of less than 100.
- Choose two pairs of numbers with a difference of less than 30.
- Choose two pairs of numbers with a difference of more than 30.

Work out the exact totals and differences each time.

### Part B

460 720 370 840 190 260 530 640

- Choose two pairs of numbers with a total of more than 1000.
- Choose two pairs of numbers with a total of less than 1000.
- Choose two pairs of numbers with a difference of less than 300.
- Choose two pairs of numbers with a difference of more than 300.

Work out the exact totals and differences each time.

### Part C

2500 3600 7100 4900 5300 3800 8200 6500

- Choose two pairs of numbers with a total of more than 10,000.
- Choose two pairs of numbers with a total of less than 10,000.
- Choose two pairs of numbers with a difference of less than 3000.
- Choose two pairs of numbers with a difference of more than 3000.

Work out the exact totals and differences each time.

### Challenge

Can you find the pair with the biggest total and the pair with the smallest difference in each section?

# Use counting up (Frog) to subtract four-digit numbers from multiples of 100

## Sheet 1

Draw number lines to show Frog solving these problems:

1.  $1000 - 573$
2.  $2000 - 1958$
3.  $6000 - 5839$
4.  $4000 - 2748$
5.  $5000 - 2349$
6.  $9000 - 4275$
7.  $8000 - 5624$
8.  $7000 - 3453$
9.  $3000 - 2222$
10.  $6000 - 3333$

### Challenge

Look at your number lines. Can you find some ways to solve the problems with fewer jumps?

# Addition and subtraction problems

## Sheet 1

1.  + 320 = 850

2. 1000 -  = 678

3. 920 -  = 480

4.  - 420 = 370

5. 3200 +  = 7800

6. 7000 -  = 4579

7. 9400 -  = 4900

8.  - 2300 = 5800

9. Adam has 520 health points. He finds a potion and ends up with 770 health points. How many points did he earn from the potion?
10. Caitlin has 3475 experience points. She needs 5000 experience points to enter the next world. How many more experience points does she need?
11. Sasha lost 240 health points. Now she has 570 health points. How many health points did she have to start with?
12. Niall had 4500 experience points. By the end of the school holidays, he had 7200 experience points! How many experience points did he gain?

# Addition and subtraction problems

## Sheet 2

1.  $4500 + \text{[ ]} = 7200$

2.  $8100 - \text{[ ]} = 4600$

3.  $7000 - \text{[ ]} = 3542$

4.  $\text{[ ]} - 3400 = 2700$

5. Stefan has 4783 health points. He was at full health at 8000 points. How many points has he lost?

6. Phoebe has 460 health points. She drinks a green potion worth 240 points and a blue potion. She ends up with 950 health points. How many points was the blue potion worth?

7. Ahmed earns 4700 experience points and now has 9200 experience points. How many points did he have before?

8. Charmaine has 7300 experience points. She needs 9000 points to get the next level. Should she choose to try and solve a puzzle worth 1800 points or a puzzle worth 1600 points?

9. Toby has 3400 health points. He drinks potions worth 2300 and 1600 points. He wants to get to full health which is 8000 points. How many more points will he need?

10. Write your own computer game word problem to go with  $\text{[ ]} + 3600 = 8400$ .