

Day 1

Teach

Watch the video and answer the example questions on this website:

www.bbc.co.uk/bitesize/articles/z6vr47h

If you cannot watch the video, read the information below.

Addition Checklist

- When writing down sums, separate the numbers into ones, tens, hundreds and thousands.
- List the numbers in a column and always start adding with the ones first.
- Estimate first and check afterwards - it's a good idea to estimate a rough answer first and then check your actual answer.
- Order doesn't matter - for example, remember that $345 + 129$ is the same as $129 + 345$.
- Key words - look out for these words in problems: total, sum, altogether, more. They all indicate an addition calculation.

Practice

Activity 1

Complete the questions in this worksheet in your book:

Practice activities

1. Use the first answer to help with the others in each set.

a) $7 + 6 = \underline{\hspace{2cm}}$

$70 + 60 = \underline{\hspace{2cm}}$ $700 + 600 = \underline{\hspace{2cm}}$

$1007 + 3006 = \underline{\hspace{2cm}}$ $2070 + 4060 = \underline{\hspace{2cm}}$

b) $9 + 5 = \underline{\hspace{2cm}}$

$90 + 50 = \underline{\hspace{2cm}}$ $900 + 500 = \underline{\hspace{2cm}}$

$49 + 25 = \underline{\hspace{2cm}}$ $1090 + 6050 = \underline{\hspace{2cm}}$

c) $3 + 8 = \underline{\hspace{2cm}}$

$30 + 80 = \underline{\hspace{2cm}}$ $300 + 800 = \underline{\hspace{2cm}}$

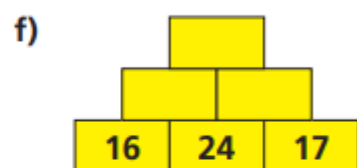
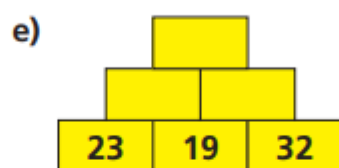
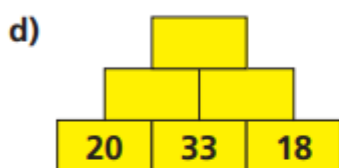
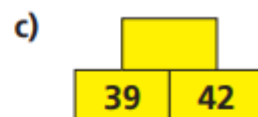
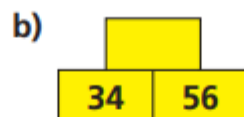
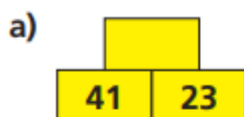
$6300 + 2800 = \underline{\hspace{2cm}}$ $4030 + 3080 = \underline{\hspace{2cm}}$

d) $8 + 7 = \underline{\hspace{2cm}}$

$80 + 70 = \underline{\hspace{2cm}}$ $800 + 700 = \underline{\hspace{2cm}}$

$58 + 37 = \underline{\hspace{2cm}}$ $3080 + 2070 = \underline{\hspace{2cm}}$

2. Write the missing numbers on these addition walls. Each missing number is the sum of the two numbers below.



3. Look at these numbers and answer the questions.

1405

2002

2404

3003

a) Add together the two odd numbers.

b) What is the total of the two smallest numbers?

c) Add together the two even numbers.

d) What is the total of the two largest numbers?

e) Find the total of the three largest numbers.

4. Look at these.

$$1234 + 8765 = 9999$$

$$3333 + 6666 = 9999$$

Find four more 4-digit additions that total 9999.

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 9999$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 9999$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 9999$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 9999$$

Day 2

Teach

Complete the quiz, watch the video and complete the example questions on this website:

www.bbc.co.uk/bitesize/articles/zrtsy9q

If you can't access the website, read the information below:

Checklist

- Use the column method to help subtract large numbers.
- Separate the numbers into their place value of **ones, tens, hundreds and thousands**.
- Start on the right with the ones column first.
- Estimate your answer first and then always check your actual answer.
- Subtraction is the opposite to addition, so subtraction can be checked by adding. For example, check that $182 - 37 = 145$ by doing the sum $145 + 37 = 182$
- Look out for these words in problems: take away, difference, less than, minus, decrease, fewer than, reduce. They all indicate subtraction.

Practice

Now you've learnt more about subtracting numbers, have some fun with this activity.

Complete as much as you can of the following worksheets in your workbook:



1) Use place value counters or the column method to calculate:

a) $5142 - 4085$

b) $9756 - 5873$

c) $8291 - 6534$

d) $7352 - 4867$

e) $5063 - 3258$

2) Which symbol should go in each box: $>$ or $<$ or $=$?

a) $2371 - 1938 =$ $1287 - 1038 =$

b) $5738 - 3474 =$ $6246 - 3982 =$

c) $6084 - 2969 =$ $7114 - 3998 =$

3) Agent OOR9 breaks 4573 secret codes each week.
744 are in German. 453 are in French. The rest are in English.

How many English codes are broken each week?



1) Agent OOR9 is trying to solve a case by cracking some codes. He has completed these calculations.



	8	2	3	4
-	4	5	8	9
	4	3	5	5

	5	6	8	1
-	3	7	2	5
	1	9	5	6

	6	8	2	4
-	6	2	5	8
		5	6	6

	7	2	3	6
-	5	4	5	7
	2	2	2	1

a) Check each calculation. Are they all correct? Where Agent OOR9 has made a mistake, write out the calculation correctly.

b) Can you explain what mistake he has made?

c) How would you explain to Agent OOR9 how to exchange when subtracting?

Agent OOR9 says,

"You can only exchange once in a subtraction calculation."

Do you agree? Explain your answer.



- 1) Use the clues to help Agent OOR9 solve the calculation to find the combination to Dr Zed's safe.



55 4 - 4562 =



1. The missing digit in 554 is an odd number.
2. The safe combination is a 4-digit number.
3. None of the digits in the combination are repeated.

- 2) Agent OOR9 has set you a mission. Your mission is to use the digits 1 to 9 to make two 4-digit numbers. You can only use each digit once. The answer to the calculation should be as close to 2000 as possible.

How close did you get? Compare your answer to others in your class. Did anyone get closer to 2000?