

If you have any questions about your learning, please email:

learning@wembleyprimary.brent.sch.uk

You do not need to send in any maths learning to your teacher, all answers have been provided for you to self mark.

Please complete learning in your home learning book.

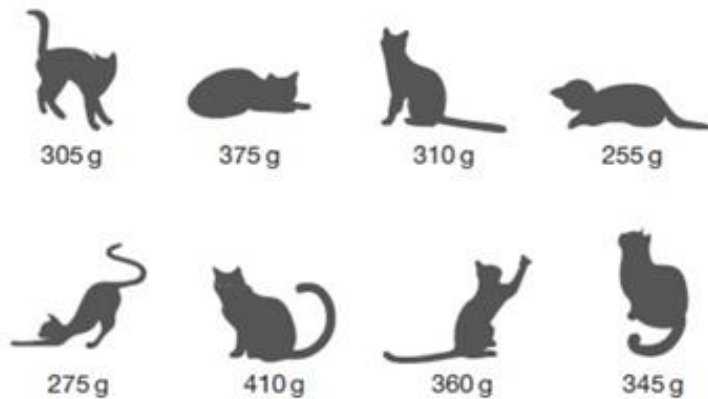
You will also have maths work on Education City.

Starter

$$\boxed{} = 5,776 - 855$$

$$3,050,020 = 3,000,000 + \boxed{} + 20$$

This picture shows the masses of eight kittens.



What is the **difference** in mass between the heaviest kitten and the lightest kitten?

Ken is playing a game. He has 4,289 points.

Then he scores another 355 points.

Ken's target is 6,000 points.

How many **more** points does Ken need to reach his target?

Day 2

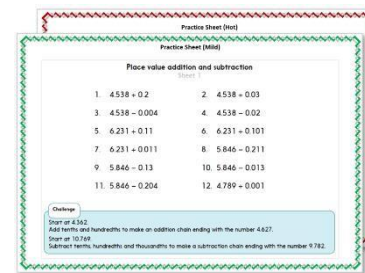
Mental strategies to add and subtract.

Each day covers one maths topic. It should take you about 1 hour or just a little more.

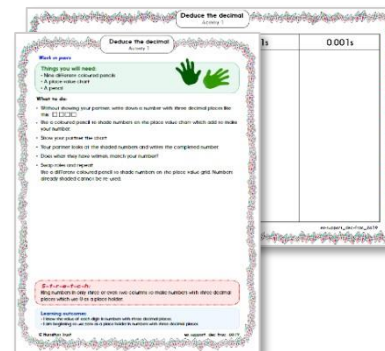
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

Learning Reminders

Use pairs to 100, other facts and place value to mentally add and subtract, including decimal numbers and money.

All the calculations today can be worked out *mentally*!
No written column methods are allowed today!
Here are some examples.
Read the clues then try them out!

$$2.77 - 0.78$$

Notice that 0.78 is just a little more than 2.77.

$$23.8 + 0.5$$

Split 0.5 into 0.2 and 0.3.

$$£3.65 + £2.35$$

What do you know about 65 and 35?

Answers

1.99
24.3
£6

Practice Sheet Mild

Mental addition and subtraction

Solve the following mentally:

1. £2.70 + = £3

2. 6.3 - 0.5 =

3. £1.98 + 32p =

4. 7.9 + 0.8 =

5. - 1.1 = 6.7

6. 0.45 + = 1

7. £3.62 + £1.28 =

8. - 26p = £2.99

Practice Sheet Hot

Mental addition and subtraction

$$£2.68 + \square = £3$$

$$56,278 - 6070$$

$$12.5 - 0.7$$

$$6 - \square = 5.36$$

$$45.7 + 0.6$$

$$4.58 + \square = 5$$

$$\square - £2.67 = £2.33$$

$$6.45 + 0.55$$

$$43,020 + 408$$

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$$£4.36 - 37p$$

$$\square + 0.48 = 1$$

$$\square + 31p = £5$$

$$\square - 0.47 = 0.53$$

$$3.25 - 0.26$$

$$£4.78 + 23p$$

$$£4.65 + £1.35$$

$$£10 - \square = £5.01$$

ANSWERS

Starter

$$\boxed{4921} = 5,776 - 855$$

$$3,050,020 = 3,000,000 + \boxed{50,000} + 20$$

This picture shows the masses of eight kittens.



305 g



375 g



310 g



255 g



275 g



410 g



360 g



345 g

What is the **difference** in mass between the heaviest kitten and the lightest kitten?

155g

Ken is playing a game. He has 4,289 points.

Then he scores another 355 points.

Ken's target is 6,000 points.

How many **more** points does Ken need to reach his target?

1356 points

Practice Sheets Answers

Mental addition and subtraction (mild)

1. £2.70 + 30p = £3
2. 6.3 - 0.5 = 5.8
3. £1.98 + 32p = £2.30
4. 7.9 + 0.8 = 8.7
5. 7.8 - 1.1 = 6.7
6. 0.45 + 0.55 = 1
7. £3.63 + £1.28 = £4.90
8. £3.25 - 26p = £2.99

Mental addition and subtraction (hot)

£2.68 + 32p = £3	56,278 - 6070 = 50,208
12.5 - 0.7 = 11.8	6 - 0.64 = 5.36
45.7 + 0.6 = 46.3	4.58 + 0.42 = 5
6.45 + 0.55 = 7	£5 - £2.67 = £2.33
43,020 + 408 = 43,428	£4.36 - 37p = £3.99
£4.69 + 31p = £5	0.52 + 0.48 = 1
1 - 0.47 = 0.53	3.25 - 0.26 = 2.99
£4.78 + 23p = £5.01	£4.65 + £1.35 = £6
	£10 - £4.99 = £5.01

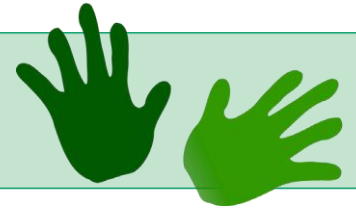
A Bit Stuck?

Pick 'n' mix

Work in pairs

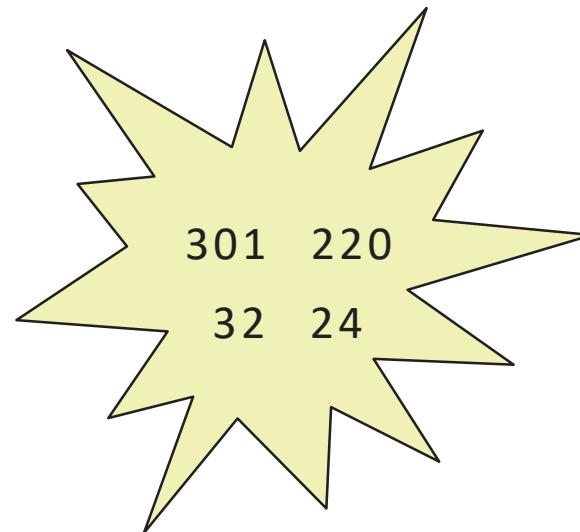
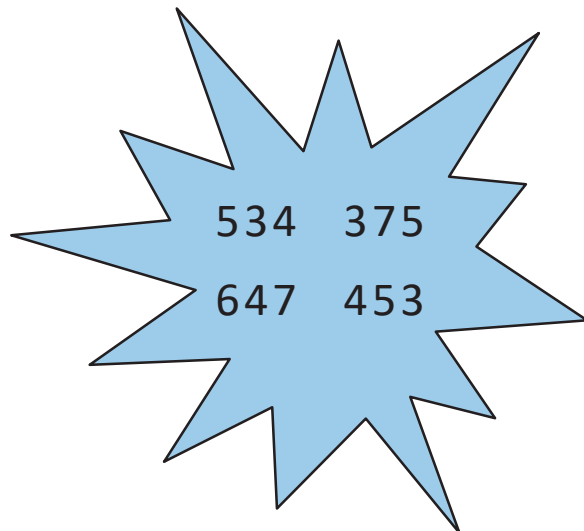
Things you will need:

- A pencil



What to do:

- Choose a pair of numbers, one from each star, that are easy to add. What is it about the numbers that makes them 'easy' to add?
- Write the addition and calculate the answer.
- Repeat at least two more times.
- Now choose a pair of numbers which are easy to subtract. Work out the answer.
- Repeat at least twice.
- How many additions and subtractions can you work out before time is up?



S-t-r-e-t-c-h:

Sort these four additions into those you would work out using a written method and those you would work out mentally:

635 + 287, 734 + 203, 527 + 310 and 478 + 259.

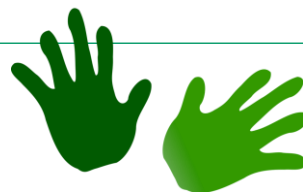
Learning outcomes:

- I can use place value to add and subtract to/from 3-digit numbers (changing two digits).
- I am beginning to choose mental or written methods.

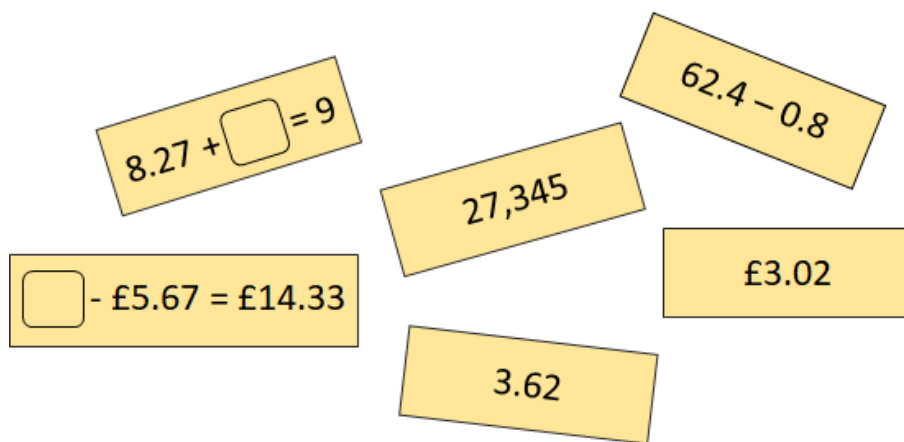
Investigation

Quick calculations

Things you will need:



- Mental addition and subtraction cards
- To prepare for this challenge cut up and shuffle both sets of 'Mental addition and subtraction cards' (questions **and** answers) then spread them **all** out, face up, on a table.



- There are 21 questions!
Predict how many questions and answers you can match in 5 minutes!
- Using a clock/watch/timer to check, match as many questions and answers as you can in 5 minutes.
- How close was your prediction?
- Repeat. Can you match them all this time, or beat your previous time if you matched them all first time?
- Are there any that you find tricky? Put those aside and see if you can find all of the others in 5 minutes. Think about what strategies help with these questions before trying again with the tricky ones.



Challenge

Write six more of your own questions which use pairs to 100, including £1 (e.g. 27p + 73p) and 1 (e.g. 0.41 + 0.59). Include examples with empty boxes in the first and second positions, e.g.



$$\square + 27p = \text{£}1$$

$$1 = 0.41 + \square$$

123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

Investigation

Mental addition and subtraction cards

 $8.27 + \square = 9$	$45,703 = 5003$	$\pounds 6.48 + \square = \pounds 10$
$62.4 = 0.8$	$\square + 0.47 = 1$	$\pounds 5 = \square = \pounds 3.79$
$45,703 = 5700$	$\square = 0.46 = 2.54$	$7.34 + \square = 10$
$\pounds 2.75 + 27\text{p}$	$\pounds 8.35 - 37\text{p}$	$\pounds 10 - \square = \pounds 5.31$
$20,305 + 7040$	$23.6 + 0.7$	$3.7 + \square = 4.3$
$\square - \pounds 5.67 = \pounds 14.33$	$\square + 0.38 = 4$	$2.78 + 0.23$
$8.54 - 0.55$	$43,241 + 20,005$	$34,030 + \square = 34,738$ 

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123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

Investigation

Mental addition and subtraction cards

2.66	3.62	24.3
0.6	0.73	0.53
£7.98	27,345	7.99
40,700	£20	£3.52
63,246	40,003	708
61.6	3	£1.21
£3.02	£4.69	3.01

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