Summer 2 Week 6 Maths Day 2

Try BBC Bitesize for daily lessons

https://www.bbc.co.uk/bitesize/dailylessons

Try the National Academy online classroom for lessons

https://www.thenational.academy/online-classroom/year-5/#subjects

Don't forget TT Rockstars!

https://play.ttrockstars.com/auth/school/student

Summer 2 Week 6 Maths 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. Look at the learning reminders.
2. Complete 'Mild' or 'Hot' practice questions
3. Finding it tricky? Have a look at 'A bit stuck' and ask a grown up
4. Completed the practise sheets? Try 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

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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 + ☐ = £3

56,278 – 6070

12.5 – 0.7

6 – ☐ = 5.36

45.7 + 0.6

4.58 + ☐ = 5

☐ – £2.67 = £2.33

6.45 + 0.55

43,020 + 408

£4.36 – 37p

☐ + 0.48 = 1

☐ + 31p = £5

☐ – 0.47 = 0.53

3.25 – 0.26

£4.78 + 23p

£4.65 + £1.35

£10 – ☐ = £5.01

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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?

534 375
647 453

301 220
32 24

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.

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- 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.

□ + 27p = £1 1 = 0.41 + □

Mental addition and subtraction cards

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

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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

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

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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

£5 − £2.67 = £2.33

6.45 + 0.55 = 7

43,020 + 408 = 43,428

£4.36 − 37p = £3.99

0.52 + 0.48 = 1

£4.69 + 31p = £5

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