Adding two 2-digit numbers
Sheet 1

+	25	40
20		
32		

+	35	45
22		
53		

+	28	58
23		
32		

+	75	46
27		
31		

+	70	85
36		
24		

+	89	96
27		
39		

134 + 19 = ☐   34 + 562 = ☐

244 + 29 = ☐   326 + 51 = ☐

423 + 76 = ☐   158 + 99 = ☐

384 + 104 = ☐   631 + 49 = ☐

Challenge

Find a quick way to complete the chain addition below!
204 + 21 + 31 + 41 + 51 + 61 =
Explain how you did it!

2-digit + 2-digit grid with missing numbers
Sheet 2

+	?	80
25	78	105
?	115	142

☐ – 19 = 115

134 + 562 = ☐

☐ – 26 = 373

326 + 74 = ☐

423 + 87 = ☐

458 + 99 = ☐

384 + 35 = ☐

☐ – 49 = 248

Challenge

Find a quick way to complete the chain addition below!
204 + 99 + 89 + 79 + 69 + 59 =
Explain how you did it!

Adding 3-digit numbers using compact addition
Sheet 1

A	B	C	D
243 + 645	246 + 645	268 + 645	243 645 + 111
831 + 154	838 + 154	837 + 174	631 154 + 213
755 + 321	791 + 325	755 + 386	451 126 + 321
264 + 535	243 + 585	267 + 555	244 729 + 133
426 + 453	426 + 456	466 + 456	327 115 + 453

Challenge

Can you find a pair of 3-digit numbers which add to give exactly 1000? All six digits must be different!

Adding 3-digit numbers using compact addition
Sheet 2

- Write a 3-digit number obeying this rule:
  - The digits must go up in twos (e.g. 468 or 357).

- Write the number with the same digits in reverse order.

- Add the two numbers using column addition.

- Circle the answer.

- Repeat this four times.

- What do you notice about the pattern in the answers?

- Predict what happens if you add numbers which go up in threes (e.g. 147 and 741).

- Try three like this.

- How about if they go up in 4s....?

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  3 5 7
+ 7 5 3
_____

_____
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Challenge

What happens with 4-digit numbers, e.g. 2468 + 8642 = ?

Addition word problems with three 3-digit numbers
Sheet 1

Choose two numbers. Add them.
Do this four times.

| 243 | 315 | 482 | 537 | 303 |

Use written addition to solve these word problems:

1)   Zoe pays £125 for her bike. Amit pays £136 for his. How much do they pay altogether?

2)   Mo is 130 cm tall, Ryan is 140 cm tall and Ella is 125 cm tall. How many centimetres tall are they altogether?

3)   Sunil, Sonny and Sally have each got 125 Pokémon stickers. How many do they have altogether?

Addition word problems with three 3-digit numbers
Sheet 2

Choose two numbers. Add them.
Do this four times.

| 247 | 375 | 482 | 539 | 363 |

Use compact written addition to solve these word problems:

1) Mo is 130 cm tall, Ryan is 132 cm tall and Ella is 127 cm tall. How many centimetres long would they be if they lay end to end on the floor?

2) Zoe's bike cost £134, Tom's cost £129 and Oti's cost £135. How much are all three bikes?

3) Luke, Mia and Chen are playing a computer game. Luke scores 342 points, Mia scores 451 points and Chen scores 124 points. How many points do they score altogether?

4) Anna, Dev and Sam are playing pinball. Anna scores 630 points, Dev scores 723 points and Sam scores 215 points. How many points do they score altogether?

5) Farmer Fred has 223 sheep, 197 cows and 478 chickens. How many animals does he have altogether?

6) Farmer Jess has 651 sheep, 574 cows and 842 chickens. How many animals does she have altogether?

Challenge

Make up a word problem where you have to add 473 and 385.