Yr 4 Addition Unit 3 (4651)

Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

Day 1 Adding three numbers Sheet 1

Working towards ARE start at Part 1 and do as many as they can.
Working at ARE start at Part 2 and so as many as they can.
Greater Depth do Parts 2 and 3.

Day 2 Adding four numbers Sheet 1

Working towards ARE do Part 1, then have a go at Part 2
Working at ARE / Greater Depth do Parts 2 and 3, as well as the challenge.

Adding three numbers

Part 1
Use expanded addition to solve these additions:

12 + 13 + 22	20 + 16 + 24
32 + 14 + 27	27 + 21 + 34
36 + 33 + 24	55 + 44 + 32

Part 2
Use compact addition to solve these additions:

21 + 42 + 34	32 + 47 + 46
34 + 25 + 42	46 + 51 + 28
51 + 62 + 45	67 + 72 + 39
48 + 46 + 53	74 + 63 + 86

Part 3
Choose three cards. Add the numbers.
Do this six times. You must do a different addition each time!

47	66	58	45	74

Challenge

I added three consecutive numbers with a total of 222. What were the numbers?

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Adding four numbers
Sheet 1

Part 1

Use expanded or compact addition to solve these additions:

11 + 23 + 12 + 31	35 + 21 + 14 + 32
24 + 15 + 23 + 11	41 + 10 + 22 + 53
32 + 61 + 45 + 56	58 + 72 + 63 + 64

Part 2

Use compact addition to solve these additions:

62 + 75 + 84 + 53	76 + 71 + 27 + 82
83 + 81 + 94 + 37	95 + 12 + 60 + 76
84 + 72 + 85 + 96	98 + 89 + 78 + 97

Part 3

A palindrome reads the same backwards as forwards, e.g. the words: mum, level or madam. Palindromic numbers do the same, e.g. 4114 or 55 or 727.

Add four 2-digit numbers to give each of these palindromic answers:

202   191   333   252

Challenge

What is the largest possible palindromic total you can find by adding four 2-digit numbers?

Addition and subtraction

Answers

Day 1 Adding three numbers Sheet 1

Part 1

Use expanded addition to solve these additions:

12 + 13 + 22 = 47   20 + 16 + 24 = 60

32 + 14 + 27 = 73   27 + 21 + 34 = 82

36 + 33 + 24 = 93   55 + 44 + 32 = 131

Part 2

Use compact addition to solve these additions:

21 + 42 + 34 = 97   32 + 47 + 46 = 125

34 + 25 + 42 = 101   46 + 51 + 28 = 125

51 + 62 + 45 = 158   67 + 72 + 39 = 178

48 + 46 + 53 = 147   74 + 63 + 86 = 223

Part 3

Choose three cards. Add the numbers.

Do this six times. You must do different addition each time!

47 + 66 + 58 = 171   66 + 58 + 45 = 169

47 + 66 + 45 = 158   66 + 58 + 74 = 198

47 + 66 + 74 = 187   66 + 45 + 74 = 185

47 + 58 + 45 = 150   58 + 45 + 74 = 177

47 + 58 + 74 = 179

47 + 45 + 74 = 166

Challenge

The numbers were:
73 + 74 + 75 = 222

Day 2 Adding four numbers Sheet 1

Part 1

Use expanded or compact addition to solve these additions:

11 + 23 + 12 + 31 = 77   35 + 21 + 14 + 32 = 102

24 + 15 + 23 + 11 = 73   41 + 10 + 22 + 53 = 126

32 + 61 + 45 + 56 = 194   58 + 72 + 63 + 64 = 257

Part 2

Use compact addition to solve these additions:

62 + 75 + 84 + 53 = 274   76 + 71 + 27 + 82 = 256

83 + 81 + 94 + 37 = 295   95 + 12 + 60 + 76 = 243

84 + 72 + 85 + 96 = 337   98 + 89 + 78 + 97 = 362

Part 3

Examples include:

202 = 48 + 17 + 83 + 54

191 = 23 + 38 + 69 + 61

333 = 81 + 82 + 83 + 87

252 = 49 + 74 + 83 + 46

Challenge

393 is the largest possible answer, e.g. 99 + 99 + 98 + 97