

Y3/4 Addition and subtraction Unit 2 (34174)

Additional teacher instructions for practice sheets

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

Day 1 Y3 Adding 3 or more numbers Sheet 1

Working towards ARE / Working at ARE

Day 1 Y3 and Y4 Adding 4 or more numbers Sheet 2

Y3 Greater Depth

Y4 Working towards ARE / Working at ARE

Day 1 Y4 Adding 5 or more numbers Sheet 3

Working towards ARE / Working at ARE / Greater Depth

Day 2 Y3 Multiples of 5: pairs to 100 Sheet 1

Working towards ARE

Give children a 100 bead string if needed.

Day 2 Y3 Matching pairs to 100 Sheet 2

Working at ARE / Greater Depth

Give children a sheet of 0-100 landmarked lines if needed.

Day 2 Y4 Pairs to 100 Sheet 3

Working towards ARE / Working at ARE / Greater Depth

Day 3 Y3 Change from £1 Sheet 1

Working towards ARE / Working at ARE / Greater Depth

Day 3 Y4 Subtracting from 100 Sheet 2

Working towards ARE / Working at ARE / Greater Depth

Working towards ARE can use 0 - 100 landmarked lines to help if needed.

Adding 3 or more numbers

Sheet 1

Add these numbers.

Remember to look for **doubles**, **number bonds** and **place value** additions.

$7 + 5 + 3 = \square$

$5 + 8 + 5 = \square$

$2 + 9 + 8 = \square$

$4 + 5 + 4 = \square$

$6 + 5 + 4 = \square$

$9 + 11 + 5 = \square$

$8 + 12 + 7 = \square$

$4 + 8 + 8 = \square$

$7 + 6 + 5 = \square$

$10 + 9 + 8 + 1 = \square$

$12 + 4 + 8 = \square$

$9 + 5 + 2 + 1 = \square$

$6 + 8 + 6 + 2 = \square$

$5 + 7 + 15 = \square$

Challenge

What four single-digit numbers could be added to make 10?

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Adding 4 or more numbers

Sheet 2

Add these numbers.

Remember to look for **doubles**, **number bonds** and **place value** additions.

$7 + 5 + 3 + 6 = \square$ $2 + 14 + 8 + 6 = \square$ $6 + 15 + 7 + 6 = \square$ $9 + 8 + 3 + 4 + 1 = \square$

$6 + 5 + 2 + 8 = \square$ $3 + 16 + 7 + 4 = \square$ $2 + 9 + 7 + 5 = \square$ $13 + 6 + 9 + 7 = \square$

$4 + 12 + 6 + 8 = \square$

$13 + 8 + 7 + 12 + 6 = \square$

$5 + 8 + 9 + 6 + 1 = \square$

$15 + 8 + 7 + 6 = \square$

Challenge

What four numbers could be added to give a total of 14? No two numbers can be the same.

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Adding 5 or more numbers

Sheet 3

Add these numbers.

Remember to look for **doubles**, **number bonds** and **place value** additions.

$13 + 4 + 8 + 7 + 2 = \square$

$7 + 8 + 7 + 8 + 6 = \square$

$6 + 9 + 14 + 11 + 8 = \square$

$5 + 12 + 5 + 7 + 8 = \square$

$9 + 2 + 5 + 9 + 6 = \square$

$11 + 8 + 5 + 4 + 8 = \square$

$11 + 4 + 8 + 16 + 9 + 5 = \square$

$3 + 12 + 12 + 6 + 20 + 7 = \square$

$9 + 3 + 8 + 7 + 11 + 15 = \square$

$4 + 13 + 9 + 3 + 9 + 4 = \square$

$4 + 15 + 8 + 1 + 2 + 10 = \square$

$1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 = \square$

Challenge

What five numbers could be added to give a total of 20? No two numbers can be the same.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Multiples of 5: pairs to 100

Sheet 1

$$45 + \square = 100 \quad 25 + \square = 100 \quad \square + 15 = 100 \quad 100 = 75 + \square \quad 55 + \square = 100$$

$$95 + \square = 100 \quad \square + 35 = 100 \quad 65 + \square = 100 \quad 85 + \square = 100 \quad 100 = 5 + \square$$

Challenge

Find a pair of numbers which total 100 where the digits add to 19. Can you find another? And another? Explain your findings.

Matching pairs to 100

Sheet 2

Use the number lines to help find the 'complement' to 100.

$$47 + \square = 100 \quad 25 + \square = 100 \quad \square + 28 = 100 \quad 100 = 12 + \square \quad 75 + \square = 100$$

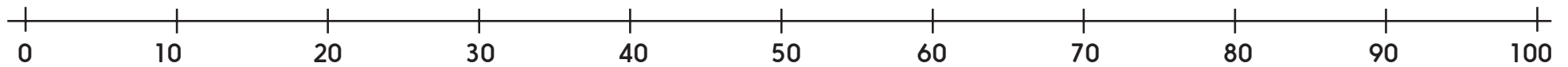
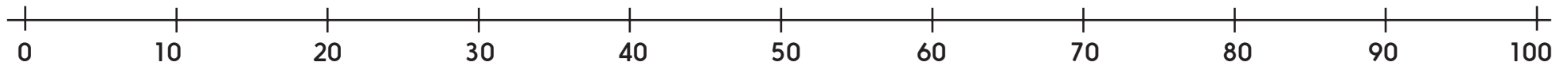
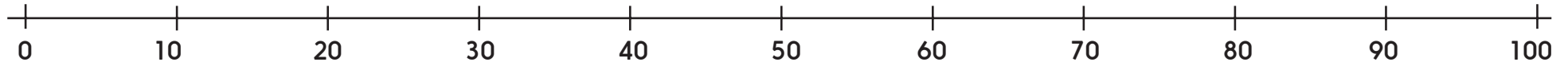
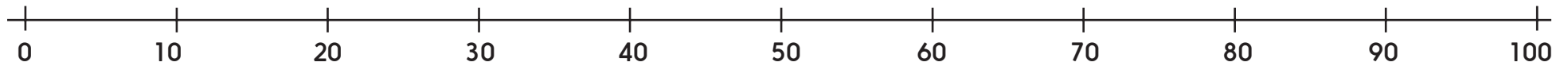
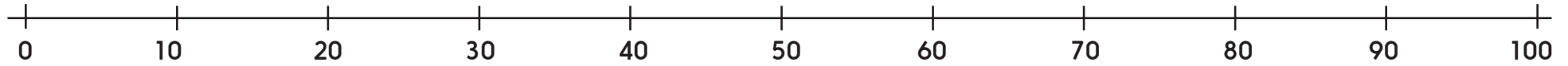
$$59 + \square = 100 \quad \square + 91 = 100 \quad 33 + \square = 100 \quad 86 + \square = 100 \quad 100 = 8 + \square$$

Challenge

Hannah's jigsaw puzzle has 100 pieces. She has put together 73 pieces so far.
How many more pieces are needed to complete the puzzle?

Matching pairs to 100

Sheet 2 continued



Pairs to 100
Sheet 3

Write in the missing digits to make each sum correct.

$$6\boxed{} + 3\boxed{} = 100$$

$$\boxed{}1 + \boxed{}9 = 100$$

$$8\boxed{} + 1\boxed{} = 100$$

$$7\boxed{} + \boxed{}4 = 100$$

$$7\boxed{} + 2\boxed{} = 100$$

$$5\boxed{} + \boxed{}9 = 100$$

$$\boxed{}8 + \boxed{}2 = 100$$

$$8\boxed{} + \boxed{}5 = 100$$

$$\boxed{}5 + \boxed{}5 = 100$$

$$6\boxed{} + \boxed{}3 = 100$$

Change from £1

Sheet 1



Find the change from £1 using Maths Frog to help you count up.

Cost of item	Workings	Change from £1
68p		
99p		
32p		
24p		
71p		
27p		
13p		
85p		
46p		
50p		

Challenge

Which prices can be subtracted from £1 where the change given is more than three 10ps and two 2ps?

Subtracting from 100

Sheet 2

$100 - 85 = \boxed{}$

$100 - 74 = \boxed{}$

$100 - 67 = \boxed{}$

$100 - \boxed{} = 31$

$100 - 53 = \boxed{}$

$42 = 100 - \boxed{}$

$100 - 38 = \boxed{}$

$100 - \boxed{} = 63$

$\boxed{} = 100 - 92$

$100 - \boxed{} = 49$

Choose two subtractions. Write additions to match each one.

Challenge

Write in missing digits to make each subtraction correct.

$100 - 8\boxed{} = 1\boxed{}$

$100 - 7\boxed{} = 3\boxed{}$

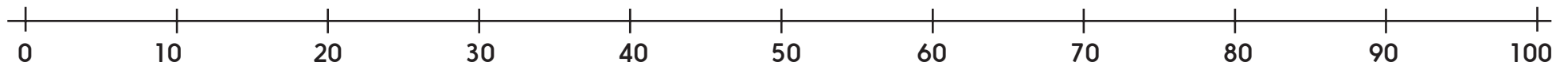
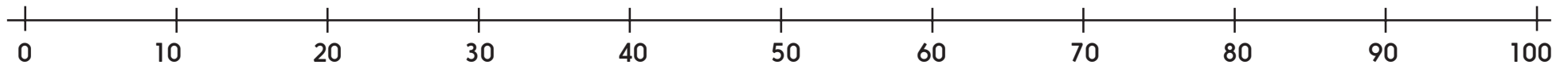
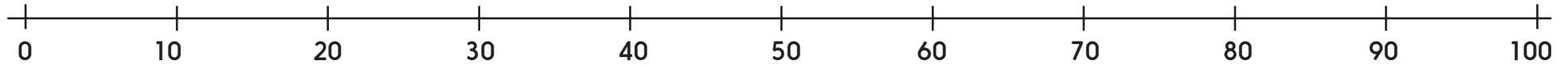
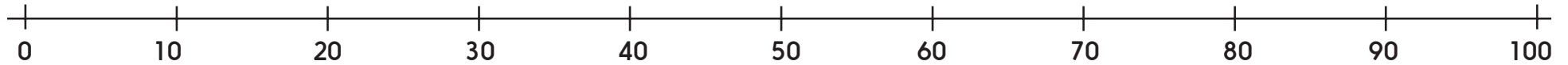
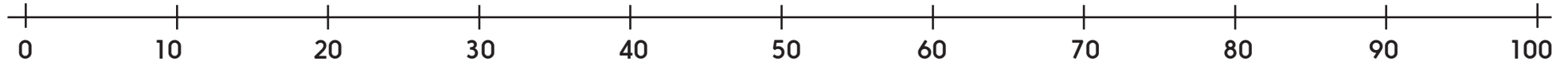
$100 - \boxed{}4 = 6\boxed{}$

$100 - \boxed{}1 = \boxed{}\boxed{}$

Do any of these only have one possibility?
Do any have more than one possibility?

Subtracting from 100

Sheet 2 continued



Addition and subtraction

Answers

Day 1 Y3 Adding 3 or more numbers Sheet 1

$7 + 5 + 3 = 15$ $5 + 8 + 5 = 18$ $2 + 9 + 8 = 19$ $4 + 5 + 4 = 13$

$6 + 5 + 4 = 15$ $9 + 11 + 5 = 25$ $8 + 12 + 7 = 27$ $4 + 8 + 8 = 20$

$7 + 6 + 5 = 18$ $10 + 9 + 8 + 1 = 28$

$6 + 8 + 6 + 2 = 22$ $5 + 7 + 15 = 27$ $12 + 4 + 8 = 24$ $9 + 5 + 2 + 1 = 17$

Challenge

What four single-digit numbers could be added to make 10? e.g.

1	2	3	4
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 or

5	3	1	1
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Day 1 Y3 and Y4 Adding 4 or more numbers Sheet 2

$7 + 5 + 3 + 6 = 21$ $2 + 14 + 8 + 6 = 30$ $6 + 15 + 7 + 6 = 34$ $9 + 8 + 3 + 4 + 1 = 25$

$6 + 5 + 2 + 8 = 21$ $3 + 16 + 7 + 4 = 30$ $2 + 9 + 7 + 5 = 23$ $13 + 6 + 9 + 7 = 35$

$4 + 12 + 6 + 8 = 30$ $13 + 8 + 7 + 12 + 6 = 46$

$5 + 8 + 9 + 6 + 1 = 29$ $15 + 8 + 7 + 6 = 36$

Challenge

What four numbers could be added to give a total of 14? No two numbers can be the same.

1	2	3	8
1	2	5	6

1	3	4	6
2	3	4	5

1	2	4	7
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Addition and subtraction

Answers

Day 1 Y4 Adding 5 or more numbers Sheet 3

$13 + 4 + 8 + 7 + 2 = 34$

$7 + 8 + 7 + 8 + 6 = 36$

$5 + 12 + 5 + 7 + 8 = 37$

$9 + 2 + 5 + 9 + 6 = 31$

$11 + 4 + 8 + 16 + 9 + 5 = 53$

$3 + 12 + 12 + 6 + 20 + 7 = 60$

$4 + 13 + 9 + 3 + 9 + 4 = 42$

$4 + 15 + 8 + 1 + 2 + 10 = 40$

$6 + 9 + 14 + 11 + 8 = 48$

$11 + 8 + 5 + 4 + 8 = 36$

$9 + 3 + 8 + 7 + 11 + 15 = 53$

$1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 = 45$

Challenge

What five numbers can be added to give a total of 20?
No two numbers can be the same.

Accept any correct answer, e.g.

1	2	4	6	7
1	2	3	5	9
2	3	4	5	6
1	2	3	6	8

Day 2 Y3 Multiples of 5: pairs to 100 Sheet 1

$45 + 55 = 100$

$25 + 75 = 100$

$85 + 15 = 100$

$100 = 75 + 25$

$55 + 45 = 100$

$95 + 5 = 100$

$65 + 35 = 100$

$65 + 35 = 100$

$85 + 15 = 100$

$100 = 5 + 95$

Challenge

$15 + 85 = 100$

$25 + 75 = 100$

$35 + 65 = 100$

$45 + 55 = 100$

The digits add to 19 because the Tens digits have to make 9 tens and the Ones digits need to total 10, and $9 + 10 = 19$.

Day 2 Y3 Matching pairs to 100 Sheet 2

$47 + 53 = 100$

$25 + 75 = 100$

$72 + 28 = 100$

$100 = 12 + 88$

$75 + 25 = 100$

$59 + 41 = 100$

$9 + 91 = 100$

$33 + 67 = 100$

$88 + 14 = 100$

$100 + 8 + 92$

Challenge

$100 = 73 + 27$

Hannah must fit 27 more pieces to complete the puzzle.

Addition and subtraction

Answers

Day 2 Y4 Pairs to 100 Sheet 3

$6 \text{ (5)} + 3 \text{ (5)} = 100$

$\text{(4)}1 + \text{(5)}9 = 100$

$8 \text{ (2)} + 1 \text{ (8)} = 100$

$7 \text{ (6)} + \text{(2)}4 = 100$

$7 \text{ (5)} + 2 \text{ (5)} = 100$

$5 \text{ (1)} + \text{(4)}9 = 100$

$\text{(5)}8 + \text{(4)}2 = 100$

$8 \text{ (5)} + \text{(1)}5 = 100$

$\text{(5)}5 + \text{(4)}5 = 100$

$6 \text{ (7)} + \text{(3)}3 = 100$

Day 3 Y3 Change from £1 Sheet

cost of item	change from £1
68p	32p
99p	1p
32p	68p
24p	76p
71p	29p
27p	73p
13p	87p
85p	15p
46p	54p
50p	50p

Challenge

Which prices can be subtracted from £1 where the change given is more than three 10ps and two 2ps? **Any amount up to and including 65p.**

Addition and subtraction

Answers

Day 3 Y4 Subtracting from 100 Sheet 2

$100 - 85 = 15$

$100 - 74 = 26$

$100 - 67 = 33$

$100 - 69 = 31$

$100 - 53 = 47$

$100 - 58 = 42$

$100 - 38 = 62$

$100 - 37 = 63$

$100 - 92 = 8$

$100 - 51 = 49$

Corresponding additions:

$85 + 15 = 100$

$74 + 26 = 100$

$67 + 33 = 100$

$69 + 31 = 100$

$53 + 47 = 100$

$58 + 42 = 100$

$38 + 62 = 100$

$37 + 63 = 100$

$92 + 8 = 100$

$51 + 49 = 100$

Challenge

Write in missing digits to make each subtraction correct.

e.g. $100 - 81 = 19$ $100 - 70 = 30$

$100 - 34 = 66$ e.g. $100 - 41 = 59$