Year 2 and Year 3 More Addition and Subtraction, Unit 3 (23356)

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

Day 1 Y2 Missing numbers Sheet 1
Working towards ARE

Day 1 Y2 Missing numbers Sheet 2
Working at ARE

Day 1 Y2 Missing numbers Sheet 3 (2 pages)
Greater Depth

Day 1 Y3 Matching pairs to 100 Sheet 4
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE complete Set A using a 0-100 beaded line (see resources).
Working at ARE complete Set A then Set B, and match the related calculations from Sets A and B by circling them in the same colour.
Greater Depth complete Set A then Set B, and match the related calculations from Sets A and B by circling them in the same colour. Next, they complete Set C, calculating the subtractions then writing the corresponding addition for each subtraction.

Day 2 Y2 How many more? Find the missing numbers Sheet 1 (2 pages)
Working towards ARE

Day 2 Y2 Addition and subtraction Sheet 2
Working at ARE / Greater Depth

Day 2 Y3 Subtract by counting up Sheet 3
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE complete Set A. Support the children drawing their own lines or give them beaded lines to work on (see resources).
Working at ARE complete Set A then Set B using Maths Frog and drawing their own lines for him to hop along.
Greater Depth. complete Set B then Set C using Maths Frog and drawing their own lines for him to hop along.

Day 3 Y2 Finding the next multiple of 10 Sheet 1
Working towards ARE / Working at ARE

Day 3 Y2 Problem solving Sheet 2
Greater Depth

Day 3 Y3 Subtract by counting up Sheet 3
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE complete Sections A and B, drawing their own lines or using beaded lines to help (see resources).
Working at ARE complete Section B.
Greater Depth. complete every other question in Section B, then all of Set C.

Missing numbers

Sheet 1

Complete the missing numbers.

8 + ☐ = 20

18 + ☐ = 20

28 + ☐ = 30

38 + ☐ = 40

23 + ☐ = 30

33 + ☐ = 40

43 + ☐ = 50

53 + ☐ = 60

31 + 9 = ☐

41 + 9 = ☐

51 + 9 = ☐

61 + 9 = ☐

57 + 3 = ☐

67 + 3 = ☐

77 + 3 = ☐

87 + 3 = ☐

☐ + 6 = 20

☐ + 6 = 30

☐ + 6 = 40

☐ + 6 = 50

☐ + 5 = 40

☐ + 5 = 50

☐ + 5 = 60

☐ + 5 = 70

Missing numbers
Sheet 2

Find the missing numbers.

$8 + \boxed{} = 10$

$\boxed{} + 3 = 40$

$17 + \boxed{} = 20$

$41 + 9 = \boxed{}$

$12 + 8 = \boxed{}$

$32 + \boxed{} = 40$

$\boxed{} + 7 = 10$

$52 + \boxed{} = 60$

$25 + \boxed{} = 30$

$\boxed{} + 6 = 50$

Challenge

What is my next 10s number?

I am the number 27. What is my next 10s number?
I am the number 54. What is my next 10s number?
I am the number 31. What is my next 10s number?
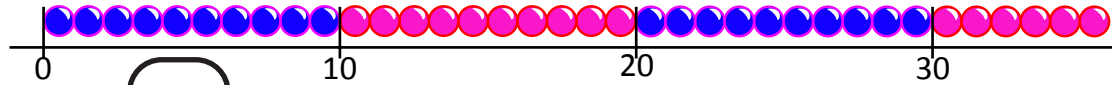I am the number 65. What is my next 10s number?
I am the number 72. What is my next 10s number?

Missing numbers
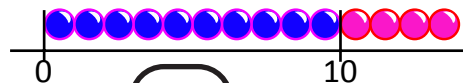## Sheet 3

Complete these stories for each bead bar.

1)

I can see [ ] beads.

The next multiple of 10 is [ ] To make it I need [ ] more.

To match this story I write this number sentence:

[ ]

2)

I can see [ ] beads.

The next multiple of 10 is [ ] To make it I need [ ] more.

To match this story I write this number sentence:

[ ]

3)

I can see [ ] beads.

The next multiple of 10 is [ ] To make it I need [ ] more.

To match this story I write this number sentence:

[ ]
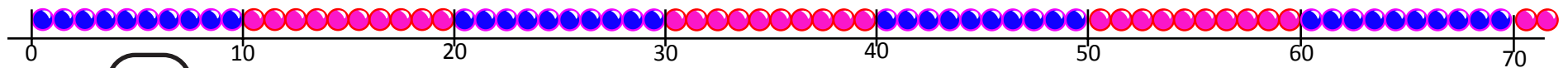
Missing numbers
Sheet 3 (continued)

4)
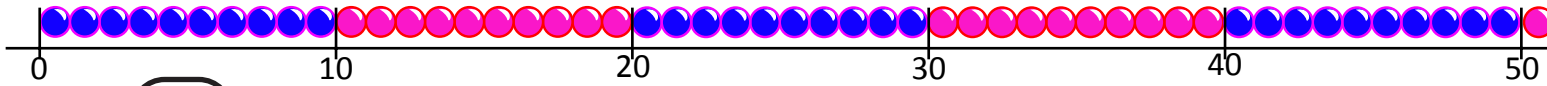
I can see ⬚ beads.

The next multiple of 10 is ⬚ To make it I need ⬚ more.

To match this story I write this number sentence:

⬚

5)

I can see ⬚ beads.

The next multiple of 10 is ⬚ To make it I need ⬚ more.

To match this story I write this number sentence:

⬚

6)
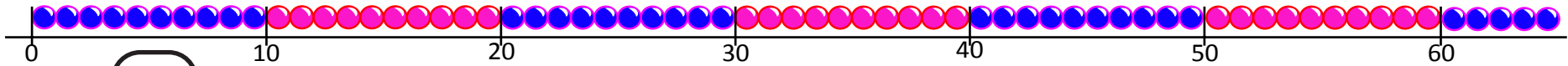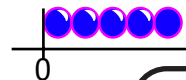
I can see ⬚ beads.

The next multiple of 10 is ⬚ To make it I need ⬚ more.

To match this story I write this number sentence:

⬚

Challenge

For each story, write the pair to 10 used to solve the problem.

Story 1 _____ + _____   Story 2 _____ + _____   Story 3 _____ + _____

Story 4 _____ + _____   Story 5 _____ + _____   Story 6 _____ + _____

Matching pairs to 100
Sheet 4

Set A

47 + ☐ = 100   25 + ☐ = 100   28 + ☐ = 100   12 + ☐ = 100   75 + ☐ = 100

59 + ☐ = 100   91 + ☐ = 100   33 + ☐ = 100   86 + ☐ = 100   8 + ☐ = 100

Set B

100 - 53 = ☐   100 - 72 = ☐   100 - 88 = ☐   100 - 25 = ☐   100 - 41 = ☐

100 - 67 = ☐   100 - 36 = ☐   100 - 14 = ☐   100 - 92 = ☐   100 - 9 = ☐

Set C

100 - 43 = ☐   100 - 79 = ☐   100 - 87 = ☐   100 - 66 = ☐   100 - 98 = ☐

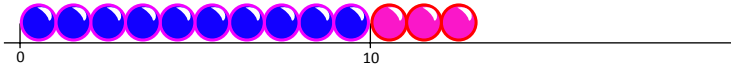**Now write the related addition for each subtraction in Set C.**

Challenge

Write a subtraction. The answer should be half the 'baby' number. The big number must be greater than 100.

How many more?
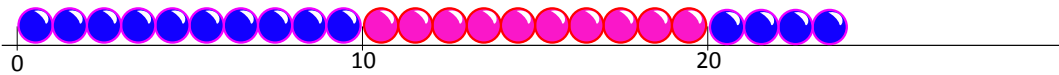
Find the 10s number and calculate how many more.

How many beads? ☐   What is the next 10s number? ☐
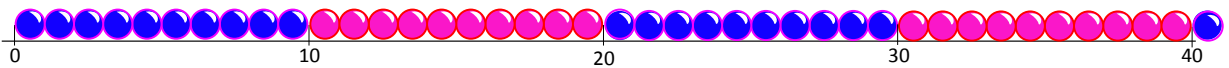
How many more to the 10s number? ☐

How many beads? ☐   What is the next 10s number? ☐

How many more to the 10s number? ☐

How many beads? ☐   What is the next 10s number? ☐
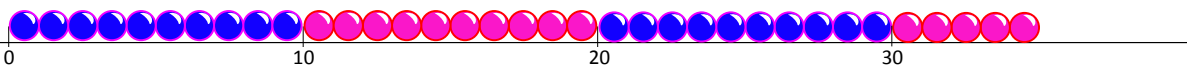
How many more to the 10s number? ☐

How many beads? ☐   What is the next 10s number? ☐

How many more to the 10s number? ☐

practice_more-add-sub_23356_day2

Find the missing numbers
Sheet 1 (continued)

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	▲	50
51	52	53	54	55	56	57	58	59	60
61	●	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	⬠	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

● What is the number? ☐

What is the next 10s number? ☐

How many more to the 10s number? ☐

▲ What is the number? ☐

What is the next 10s number? ☐

How many more to the 10s number? ☐

⬠ What is the number? ☐

What is the next 10s number? ☐

How many more to the 10s number? ☐

Challenge

Put a circle around the multiples of 10 that you have written.
Which multiples of 10, between 0 and 100, have not been used?

Addition and subtraction
Sheet 2

Write addition and subtraction sentences for each number.
Like this:

47

| 47 + 3 = 50 | 50 - 3 = 47 |

23

| | |

56

| | |

81

| | |

95

| | |

18

| | |

34

| | |

72

| | |

Make up three of your own, starting with a different number each time.

Challenge

On each number sentence, put a circle around the multiples of 10.
Which multiples of 10 between 0 and 100 have not been used?

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Subtracting by counting up
Sheet 3

Use Maths Frog to calculate these subtractions.

Set A

60 - 45 = ☐   40 - 26 = ☐   30 - 13 = ☐

50 - 31 = ☐   70 - 52 = ☐   80 - 64 = ☐

Set B

31 - 18 = ☐   86 - 69 = ☐   65 - 47 = ☐

43 - 26 = ☐   34 - 15 = ☐   52 - 34 = ☐

Set C

48 - 25 = ☐   35 - 17 = ☐   72 - 54 = ☐

97 - 76 = ☐   63 - 41 = ☐   54 - 33 = ☐

Challenge

34 - 15 = 19. 57 - 38 = 19. 82 - 63 = 19.
Find three other pairs of numbers with a difference of 19. Write a statement about their units digits.

Finding the next multiple of 10

Sheet 1

a. Count the beads
b. Find the next multiple of 10.
c. Count up to get to this.
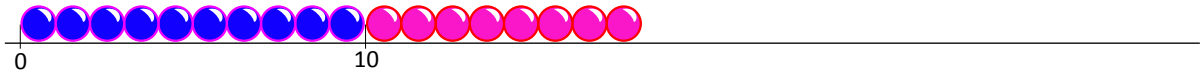
e.g.   a. *18 beads*   b. *20*   c. *18 + 2 = 20*
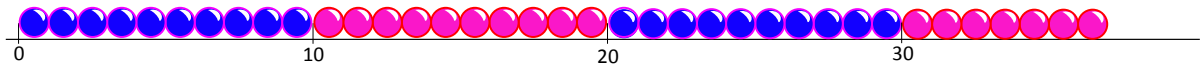
1.   a.   b.   c.
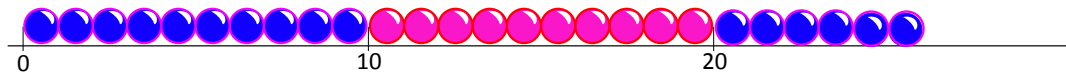
2.   a.   b.   c.
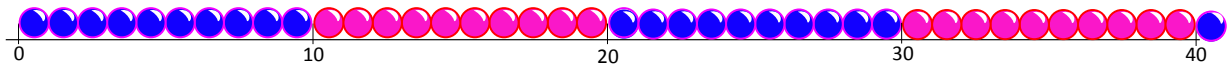
3.   a.   b.   c.
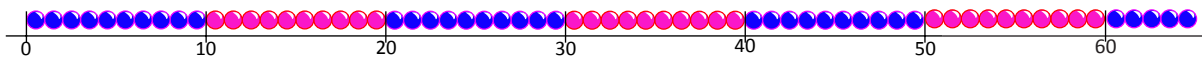
4.   a.   b.   c.
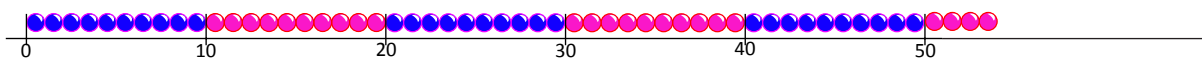
5.   a.   b.   c.

Choose a 2-digit number.
Write an addition to make the next multiple of 10,
e.g. I choose 64. I write: 64 + 6 = 70.

Do this five times.

Hint: Use a 1-100 grid to help.

Challenge

Look at the multiples of 10.
Can you find any pairs which add to make 100?

Problem solving
Sheet 2

Solve these riddles.

1) I'm thinking of a number, I add 3 and get 20.
What is my number?
Write the number sentence for my riddle.

2) I'm thinking of a number, I add 6 and get 40.
What is my number?
Write the number sentence for my riddle.

3) I'm thinking of a number, I add 7 and get 60.
What is my number?
Write the number sentence for my riddle.

4) I'm thinking of a number, I add 8 and get 70.
What is my number?
Write the number sentence for my riddle.

5) I'm thinking of a number, I add 9 and get 80.
What is my number?
Write the number sentence for my riddle.

Challenge

Can you write your own riddle for a friend to solve?
Talk through their answer with them.

Subtracting by counting up
Sheet 3

Use Maths Frog to help you calculate these subtractions.

Set A

30 - 18 = ☐   80 - 66 = ☐   40 - 23 = ☐

90 - 75 = ☐   60 - 43 = ☐   70 - 54 = ☐

Set B

83 - 45 = ☐   94 - 78 = ☐   45 - 29 = ☐

91 - 76 = ☐   54 - 37 = ☐   42 - 24 = ☐

Set C

74 - 58 = ☐   65 - 37 = ☐   82 - 46 = ☐

53 - 28 = ☐   81 - 47 = ☐   95 - 66 = ☐

Challenge

■ - ● =

Frog does a hop of 6 and then a hop of 20. Write three pairs of 2-digit numbers between 50 and 20 which could be his subtraction.

More Addition and Subtraction

Answers

Day 1 Y2 Missing numbers Sheet 1

8 + **12** = 20

18 + **2** = 20

28 + **2** = 30

38 + **2** = 40

23 + **7** = 30

33 + **7** = 40

43 + **7** = 50

53 + **7** = 60

31 + 9 = **40**

41 + 9 = **50**

51 + 9 = **60**

61 + 9 = **70**

57 + 3 = **60**

67 + 3 = **70**

77 + 3 = **80**

87 + 3 = **90**

14 + 6 = 20

24 + 6 = 30

34 + 6 = 40

44 + 6 = 50

35 + 5 = 40

45 + 5 = 50

55 + 5 = 60

65 + 5 = 70

Day 1 Y2 Missing numbers Sheet 2

8 + **2** = 10

17 + **3** = 20

12 + 8 = **20**

3 + 7 = 10

25 + **5** = 30

37 + 3 = 40

41 + 9 = **50**

32 + **8** = 40

52 + **8** = 60

44 + 6 = 50

Challenge

I am the number 27. What is my next 10s number? **30**

I am the number 54. What is my next 10s number? **60**

I am the number 31. What is my next 10s number? **40**

I am the number 65. What is my next 10s number? **70**

I am the number 72. What is my next 10s number? **80**

Day 1 Y2 Missing numbers Sheet 3

Story 1

I can see **36** beads. The next multiple of 10 is **40**. To make it I need **4** more. To match this story I write the number sentence **36 + 4 = 40.**

Story 2

I can see **14** beads. The next multiple of 10 is **20**. To make it I need **6** more. To match this stoy I write the number sentence **14 + 6 = 20.**

Story 3

I can see **72** beads. The next multiple of 10 is **80**. To make it I need **8** more. To match this stoy I write the number sentence **72 + 8 = 80**.

Story 4

I can see **51** beads. The next multiple of 10 is **60**. To make it I need **9** more. To match this stoy I write the number sentence **51 + 9 = 60**.

Story 5

I can see **65** beads. The next multiple of 10 is **70**. To make it I need **5** more. To match this stoy I write the number sentence **65 + 5 = 70**.

Story 6

I can see **5** beads. The next multiple of 10 is **10**. To make it I need **5** more. To match this stoy I write the number sentence **5 + 5 = 10**.

More Addition and Subtraction

Answers

Day 1 Y2 Missing numbers Sheet 3 continued

> **Challenge**
>
> Story 1   6 + 4   Story 2   4 + 6   Story 3   2 + 8
>
> Story 4   1 + 9   Story 5   5 + 5   Story 6   5 + 5

Day 1 Y3 Matching pairs to 100 Sheet 4

Set A

47 + 53 = 100   25 + 75 = 100   28 + 72 = 100   12 + 88 = 100   75 + 25 = 100

59 + 41 = 100   91 + 9 = 100   33 + 67 = 100   86 + 14 = 100   8 + 92 = 100

Set B

100 - 53 = 47   100 - 72 = 28   100 - 88 = 12   100 - 25 = 75   100 - 41 = 59

100 - 67 = 33   100 - 36 = 64   100 - 14 = 86   100 - 92 = 8   100 - 9 = 91

Set C

100 - 43 = 57   100 - 79 = 21   100 - 87 = 13   100 - 66 = 34   100 - 98 = 2

43 + 57 = 100   79 + 21 = 100   87 + 13 = 100   34 + 66 = 100   98 + 2 = 100

> **Challenge**
>
> Accept any sum where the answer is half the baby number and the big number is greater than 100 e.g. 120 - 80 = 40 or 150 - 100 = 50

Day 2 Y2 How many more? Find the missing numbers Sheet 1

How many beads?   13   What is the next 10s number?   20

How many more to the 10s number?   7

How many beads?   24   What is the next 10s number?   30

How many more to the 10s number?   6

How many beads?   41   What is the next 10s number?   50

How many more to the 10s number?   9

How many beads?   35   What is the next 10s number?   40

How many more to the 10s number?   5

More Addition and Subtraction
Answers

Day 2 Y2 How many more? Find the missing numbers Sheet 1 continued

🔵 What is the number? **62**
What is the next 10s number? **70**
How many more to the 10s number? **8**

🔺 What is the number? **49**
What is the next 10s number? **50**
How many more to the 10s number? **1**

⬠ What is the number? **85**
What is the next 10s number? **90**
How many more to the 10s number? **5**

Challenge

Children should have circled 70, 50 and 90. The multiples of 10 which have not been used are 10, 20, 30, 40, 60, 80 and 100.

Day 2 Y2 Addition and subtraction Sheet 2

23		95	
23 + 7 = 30	30 - 7 = 23	95 + 5 = 100	100 - 5 = 95

56		18	
56 + 4 = 60	60 - 4 = 56	18 + 2 = 20	20 - 2 = 18

81		34	
81 + 9 = 90	90 - 9 = 81	34 + 6 = 40	40 - 6 = 34

72	
72 + 8 = 80	80 - 8 = 72

Challenge

The multiples of 10 which have not been used are 10, 50 and 70.

Addition and Subtraction
Answers

Day 2 Y3 Subtracting by counting up Sheet 3

Set A   Set B   Set C

15   14   17   13   17   18   23   18   18

19   18   16   17   19   18   21   22   21

Challenge
Many possible answers.
The units digits are always consecutive numbers when the answer to the subtraction is 19.

Day 3 Y2 Finding the next multiple of 10 Sheet 1

1. a) 37 beads   b) 40   c) 37 + 3 = 40   4. a) 65 beads   b) 70   c) 65 + 5 = 70
2. a) 26 beads   b) 30   c) 26 + 4 = 30   5. a) 54 beads   b) 60   c) 54 + 6 = 60
3. a) 41 beads   b) 50   c) 41 + 9 = 50

Day 3 Y2 Problem solving Sheet 2

1)   **17**   17 + 3 = 20
2)   **34**   34 + 6 = 40
3)   **53**   53 + 7 = 60
4)   **62**   62 + 8 = 70
5)   **71**   71 + 9 = 80

Day 3 Y3 Subtracting by counting up Sheet 3

Set A   Set B   Set C

12   14   17   38   16   16   16   28   36

15   17   16   15   17   18   25   34   29

Challenge
For example 50 – 24, 49 – 23, 48 – 22, 47 – 21, 46 – 20.