Subtract Two 2-Digit Numbers, Not Crossing Ten

Adult Guidance with Question Prompts

Children build fluency subtracting two 2-digit numbers, not crossing ten. They practise using a range of strategies, including crossing out pictures representing tens and ones, using number facts and counting back on number lines. Children may also benefit from using equipment representing tens and ones to support their learning.

The children are having a sale to raise funds.

Our job is to find out how much they have left to sell another day.

What can you tell me about the sunflowers?

How many sunflowers did they have to start with? How do you know?

How many did they sell? Show me where to find out.

What can you use to find out how many are left?

Can you use a different strategy to check?

Repeat for the other calculations.

What do you notice about the number of things left to sell?

How much do we have left?

You could find out by subtracting the tens first.

45 - 12 = ☐

- 2   - 10   45

57 - 24 = ☐

-    -   57

Or you could subtract the ones first.

79 - 46 = ☐

- 40   - 6   79

68 - 35 = ☐

-    -   68

Adult Guidance with Question Prompts

Children apply their reasoning skills to see which child is correct. Children explain their reasoning using equipment to support their explanations. They use a range of strategies, including crossing out pictures representing tens and ones, using number facts and counting back on number lines.

Do you know who is correct?

What can we do to find out?

Show me how you can solve this calculation.

Can you check it using a different method?

Who got the correct answer?

What mistake did the other child make?

Do you know who is correct?

What can we do to find out?

Show me how you can solve this calculation.

Can you check it using a different method?

Who got the correct answer? (neither child is correct)

What mistake did the children make?

What advice could you give them to help them improve?

Samir and Aima are seeing what they have left after the fundraising event.

96 – 24 =

There are 72 carrot seeds left.

Samir

There are 62 carrot seeds left.

Aima

Who is correct? Prove it.

83 – 51 =

There are 33 flower seeds left.

Samir

There are 30 flower seeds left.

Aima

Who is correct? Prove it.

Subtract Two 2-Digit Numbers, Not Crossing Ten

Adult Guidance with Question Prompts

Children subtract two 2-digit numbers, not crossing ten. They apply their problem-solving skills to explore missing number challenges and complete a 'find all possibilities' investigation. Children use number facts and blank number lines to find solutions.

What are they asking you to find out? What information do you have?

Where would this go on your number line? What steps can you take to work out the missing number?

Can you use a different strategy to check?

Repeat for the second problem.

Which number should follow the equals symbol? Remember we are subtracting two 2-digit numbers.

Where would be a good place to start? How can you make sure that you find all of the possibilities?

Can you help the friends find the missing numbers?

How many carrots did I sell?

59 - ☐ = 27

27   59

How many cakes did I start with?

☐ - 23 = 64

What could the missing numbers be?

☐ - ☐ = 24

How many possibilities can you find?

How Many Left?

To subtract two 2-digit numbers, not crossing ten.

Use number facts and empty number lines to find the answers.

How many will I have left?

If 1 - 1 = 0 , then 10 - 10 = 0 tens.

10 cakes

18 - 11 = ☐

- 1   - 10

8   18

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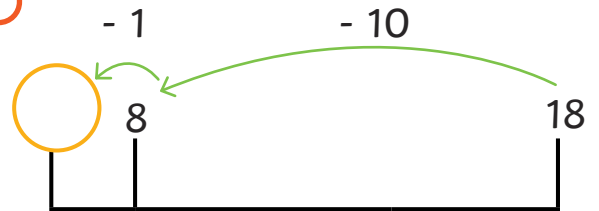
10 cakes
10 cakes

23 - 12 = ☐

- 2   - 10

13   23

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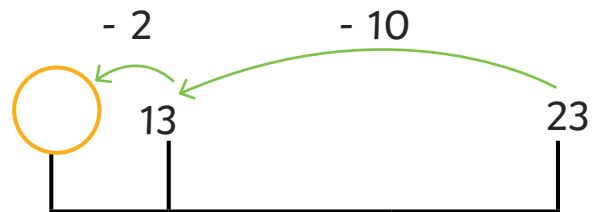
10 cakes
10 cakes
10 cakes

36 - 24 = ☐

- 4   - 20

36

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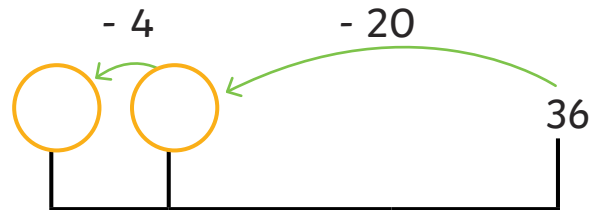
10 cakes
10 cakes
10 cakes
10 cakes

47 - 25 = ☐

- 5   - 20

47

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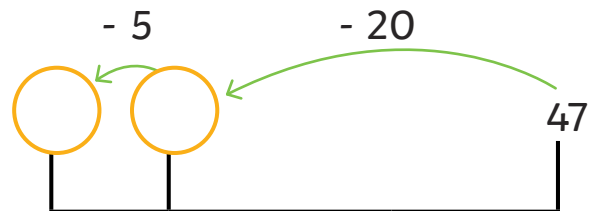
10 cakes
10 cakes
10 cakes
10 cakes   10 cakes

59 - 33 = ☐

How Many Left? **Answers**
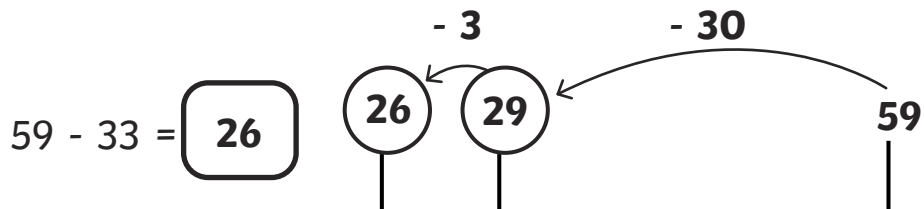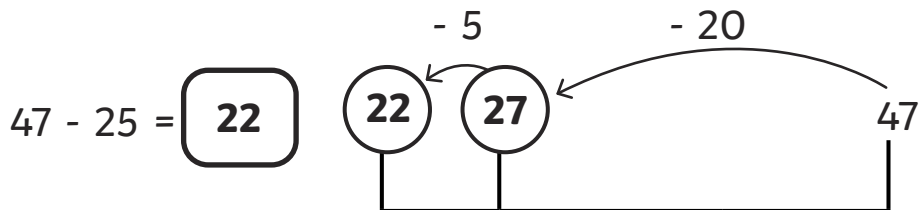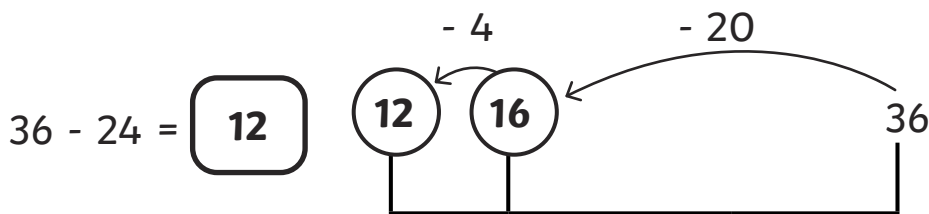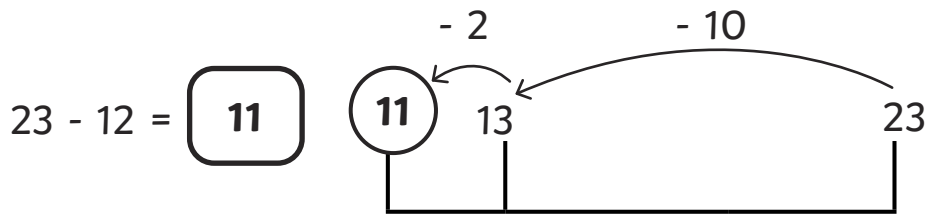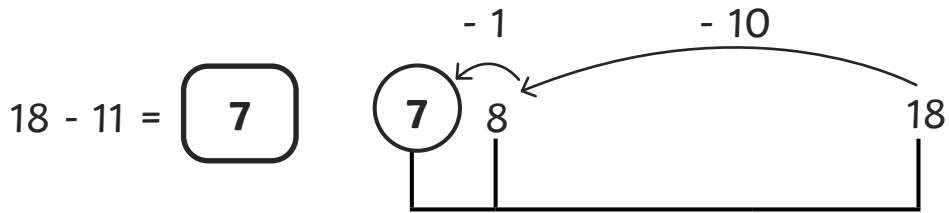
18 - 11 = **7**

- 1   - 10

(7) 8   18

23 - 12 = **11**

- 2   - 10

(11) 13   23

36 - 24 = **12**

- 4   - 20

(12) (16)   36

47 - 25 = **22**

- 5   - 20

(22) (27)   47

59 - 33 = **26**

- 3   - 30

(26) (29)   59

How Many Left?

To subtract two 2-digit numbers, not crossing ten.

How many will I have left?

You could subtract the tens first.

If $2 - 1 = 1$, then $20 - 10 = 10$.

$25 - 13 =$ ☐

$- 3$ $- 10$ 25

$46 - 22 =$ ☐

$- 2$ $- 20$ 46
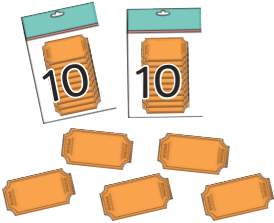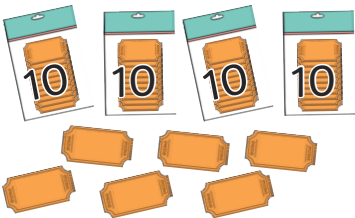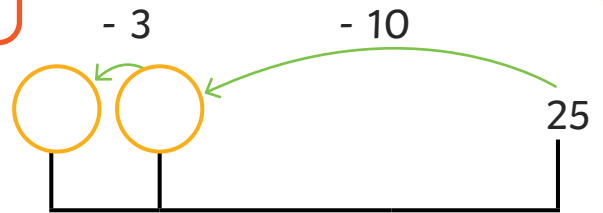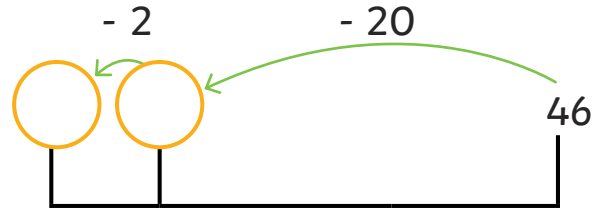
Or you could subtract the ones first.

$57 - 34 =$ ☐

$- 30$ $- 4$ 57

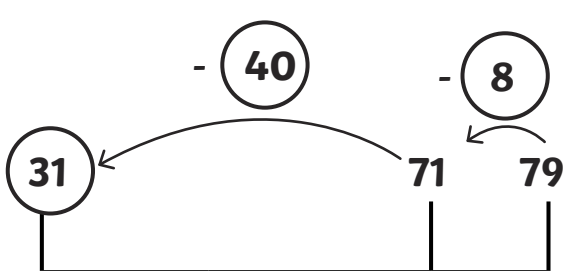$68 - 33 =$ ☐

68
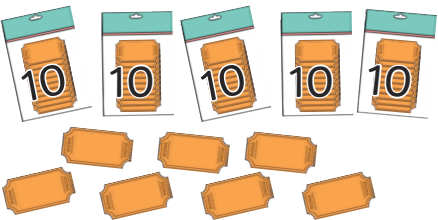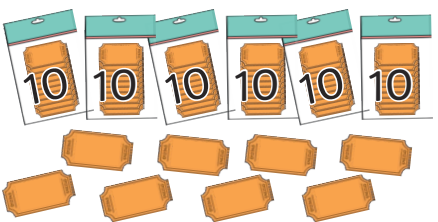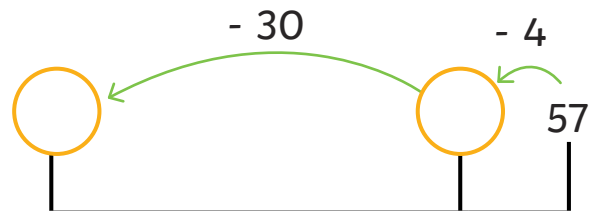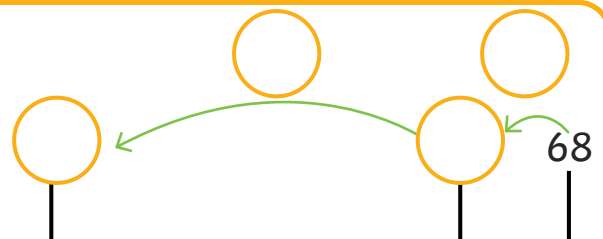
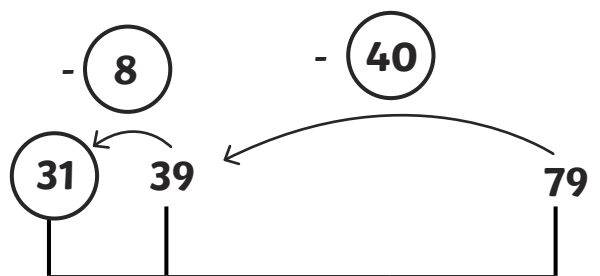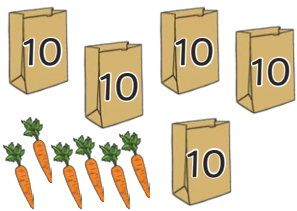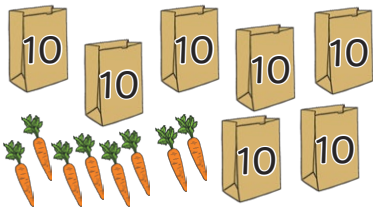Will you choose to subtract the tens or the ones first?

$79 - 48 =$ ☐

How Many Left? **Answers**
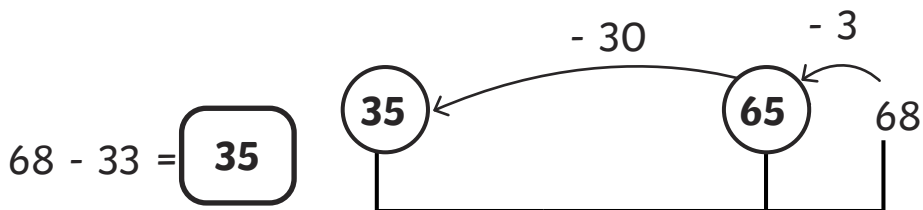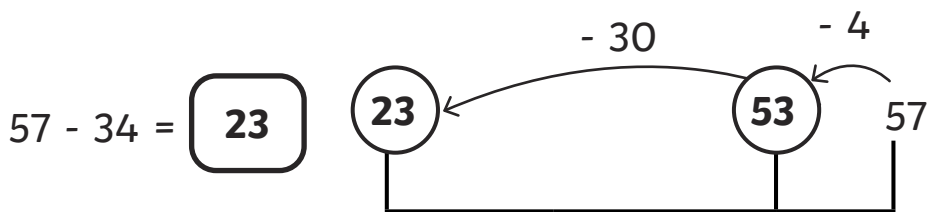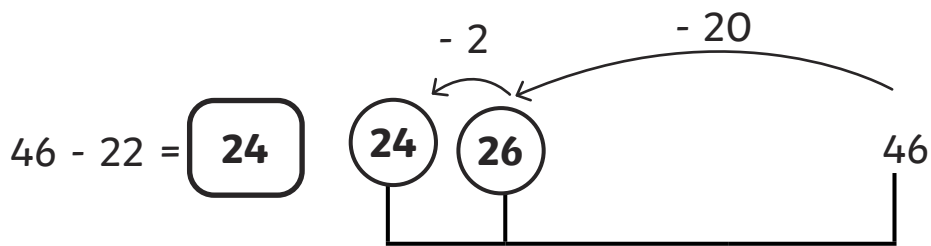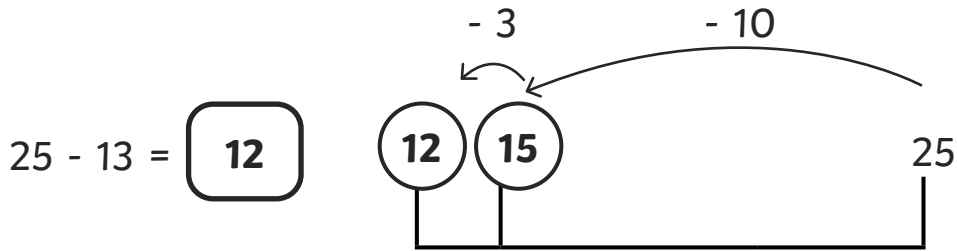
25 - 13 = **12**

- 3   - 10

12 **15**   25

46 - 22 = **24**

- 2   - 20

24 **26**   46

57 - 34 = **23**

- 30   - 4

23   **53** 57

68 - 33 = **35**

- 30   - 3

35   **65** 68

79 - 48 = **31**

- **40**   - **8**

31   71 **79**

or

- **8**   - **40**

31 39   79

How Many Left?

To subtract two 2-digit numbers, not crossing ten.

How many will I have left?

You could subtract the tens first.

If 5 - 2 = 3 , then 50 - 20 = 30.

56 - 22 = ☐

- 2   - 20

56
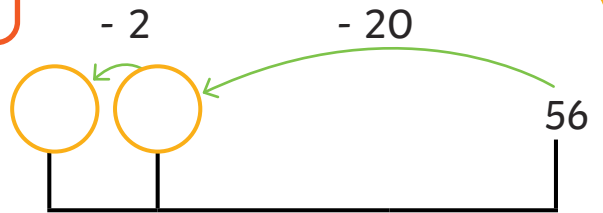
Or you could subtract the ones first.

78 - 35 = ☐

- 30   - 5

78
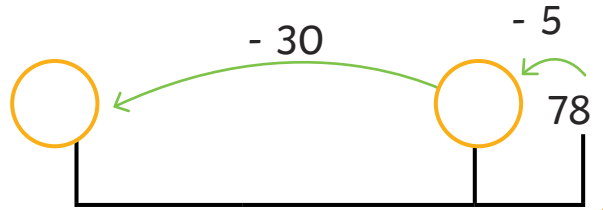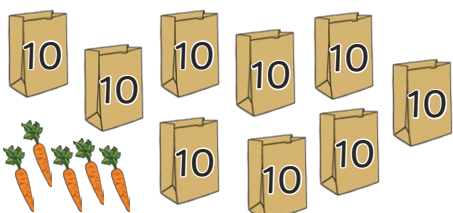
Will you choose to subtract the tens or the ones first?
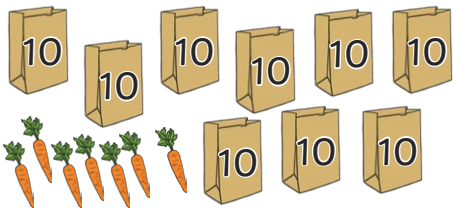
97 - 42 = ☐
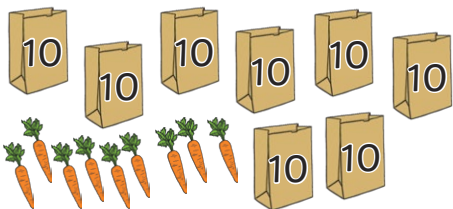
89 - 27 = ☐

95 - 64 = ☐

How Many Left? **Answers**

56 - 22 = **34**

- 2   - 20

(34) (36) ← 56

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78 - 35 = **43**

- 30   - 5

(43) ← (73) 78

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97 - 42 = **55**

- (40)   - (2)

(55) ← 95 97

or

- (2)   - (40)

(55) 57 ← 97

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89 - 27 = **62**

- (20)   - (7)

(62) ← 82 89

or

- (7)   - (20)

(62) 69 ← 89

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95 - 64 = **31**

- (60)   - (4)

(31) ← 91 95

or

- (4)   - (60)

(31) 35 ← 95

45 - 12 = **33**

− 2   − 10

33 **35**   45

57 - 24 = **33**

− **4**   − **20**

33 **37**   57

79 - 46 = **33**

− 40   − 6

33   **73** 79

68 - 35 = **33**

− **30**   − **5**

33   **63** 68

Samir is correct.

Neither child is correct.

59 - [**32**] = 27

- (**2**)   - (**30**)

27   (**29**)   59

[**87**] - 23 = 64

- (**3**)   - (**20**)

(**64**)   (**67**)   (**87**)

Please accept any calculations subtracting a two-digit number from another two-digit number giving the answer of 24.

Many possible answers, for example:

34 – 10 = 24

35 – 11 = 24

36 – 12 = 24