

Addition & Subtraction

- Add 2-digit numbers (not crossing 10)
- Add 2-digit numbers (crossing 10)
- Subtract 2-digits (not crossing 10)



Block 2 – Week 7



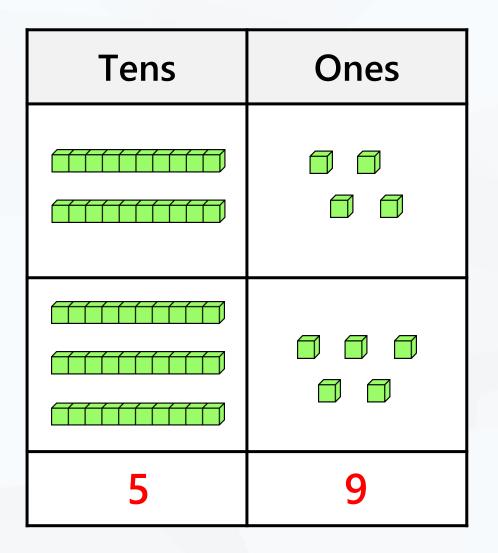
Lesson 1

Step: Add 2-digit numbers (not crossing 10)

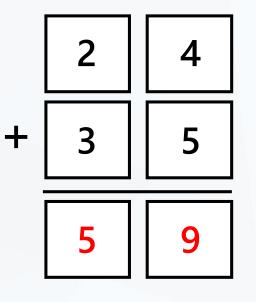
(Practical)

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Use the Base 10 to help you complete the addition calculations:

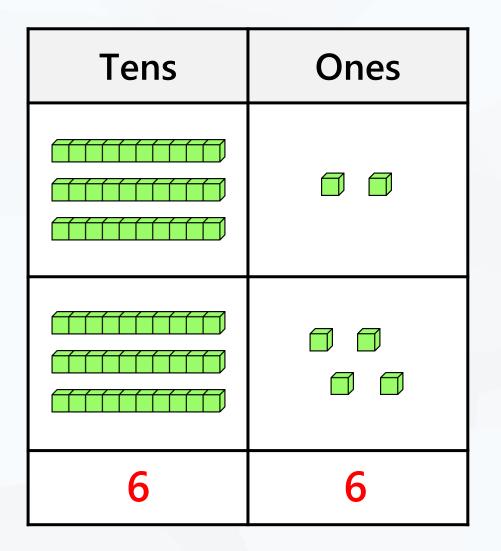


Column addition:

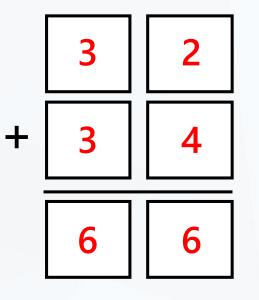


Number sentence:

Use the Base 10 to help you complete the addition calculations:

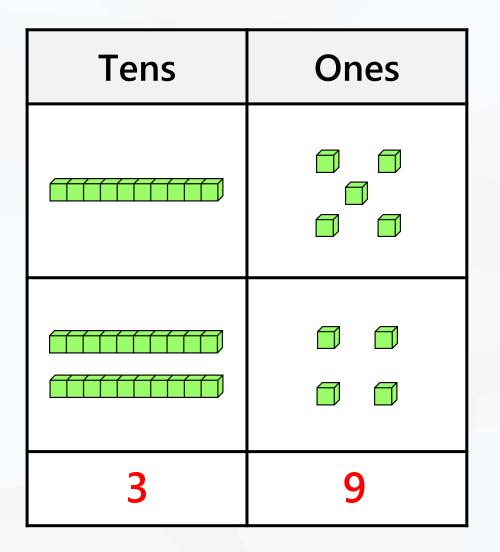


Column addition:

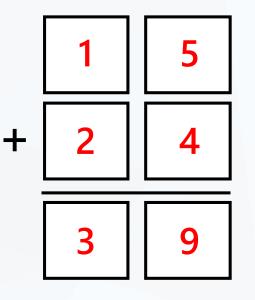


Number sentence:

Use the Base 10 to help you complete the addition calculations:



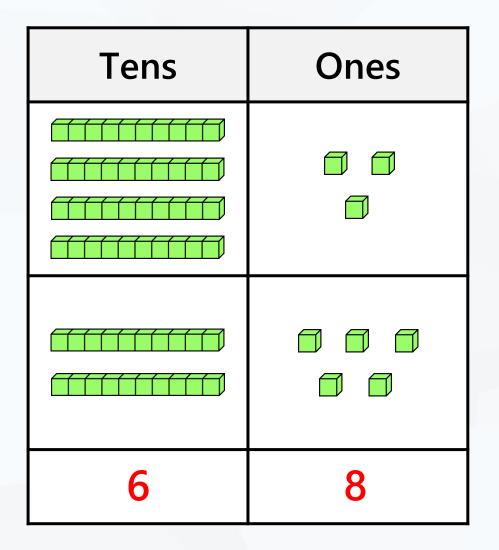
Column addition:



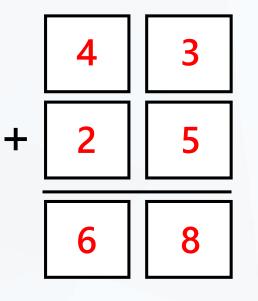
Number sentence:

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Use the Base 10 to help you complete the addition calculations:



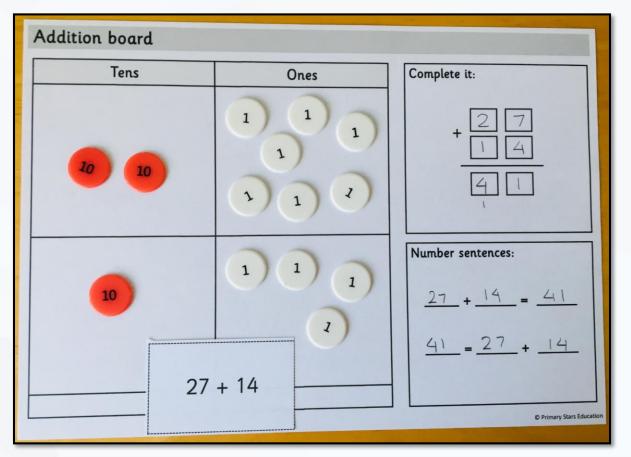
Column addition:



Number sentence:

Practical:

Select a calculation card and build it using equipment. Solve and represent the calculation using column addition and a number sentence.

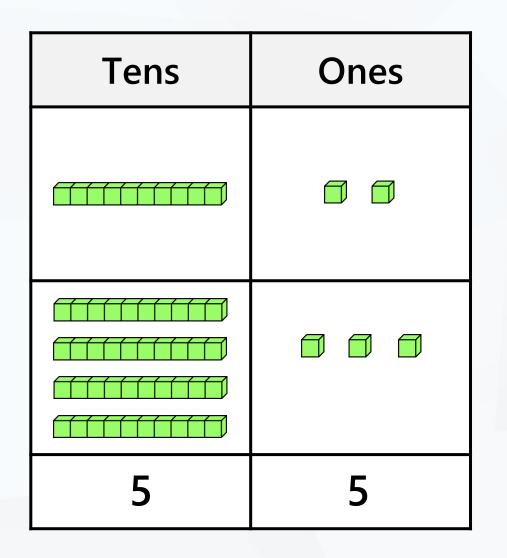


Addition problem	Column addition	Part-whole model
18 + 31 = 498 ones + 1 ones = 9 ones.1 ten + 3 tens = 4 tens.4 tens + 9 ones = 49	1 8 + 3 1 4 9	49 (18) 31
26 + 42 = 68 6 ones + 2 ones = 8 ones. 2 tens + 4 tens = 6 tens. 6 tens + 8 ones = 68	2 6 + 4 2 6 8	68 (26)(42)

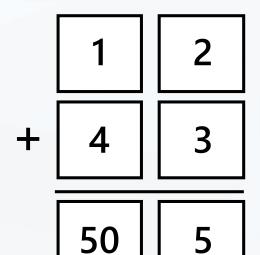
Addition problem	Column addition	Part-whole model
35 + 21 = 56 5 ones + 1 ones = 6 ones. 3 tens + 2 tens = 5 tens. 5 tens + 6 ones = 56	3 5 + 2 1 5 6	56 35 21
42 + 57 = <u>99</u> 2 ones + 7 ones = <u>9</u> ones. 4 tens + 5 tens = <u>9</u> tens. <u>9</u> tens + <u>9</u> ones = <u>99</u>	4 2 + 5 7 9 9	99 (42)(57)

Reasoning

Spot and explain the mistake made.

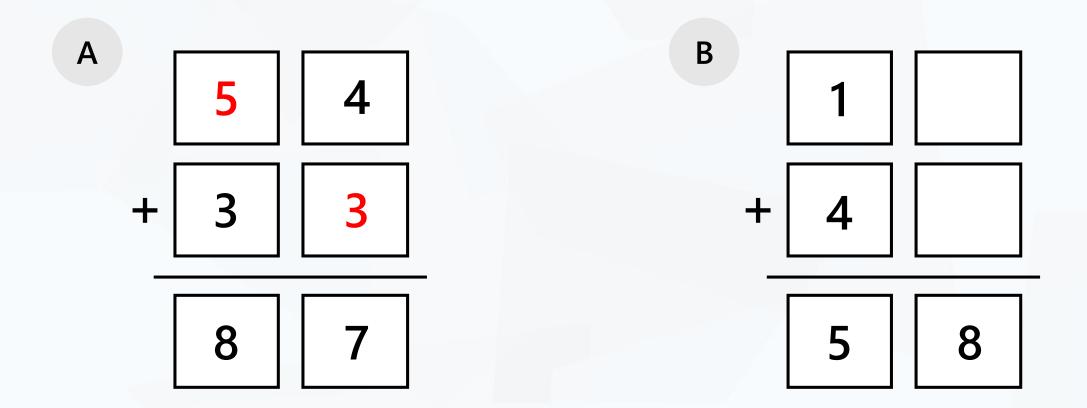


Column addition:



The tens column has been completed incorrectly. There are 5 tens (not 50 tens).

Complete the column addition calculations to make them true.



How many different ways can B be completed?

Problem solving

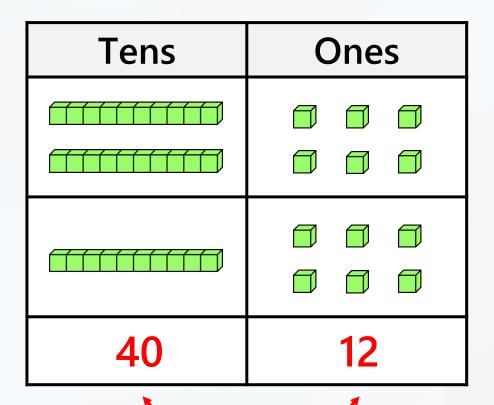


Lesson 2

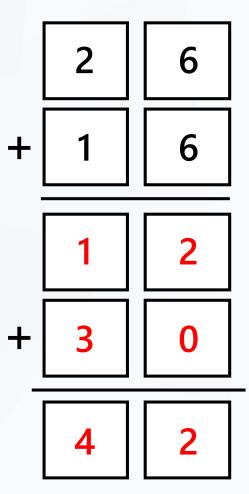
Step: Add 2-digit numbers (crossing 10)

(Practical)

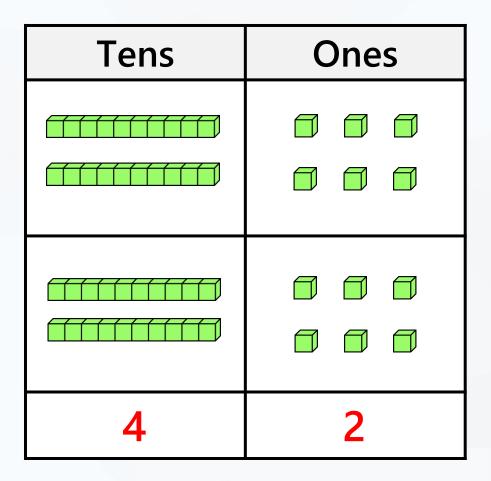
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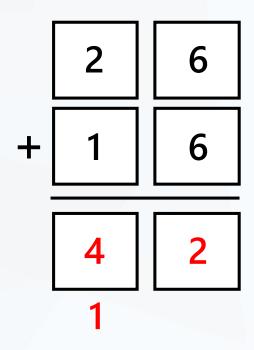


Expanded column addition shows the <u>value</u> of each digit.



<u>Compact</u> column addition:

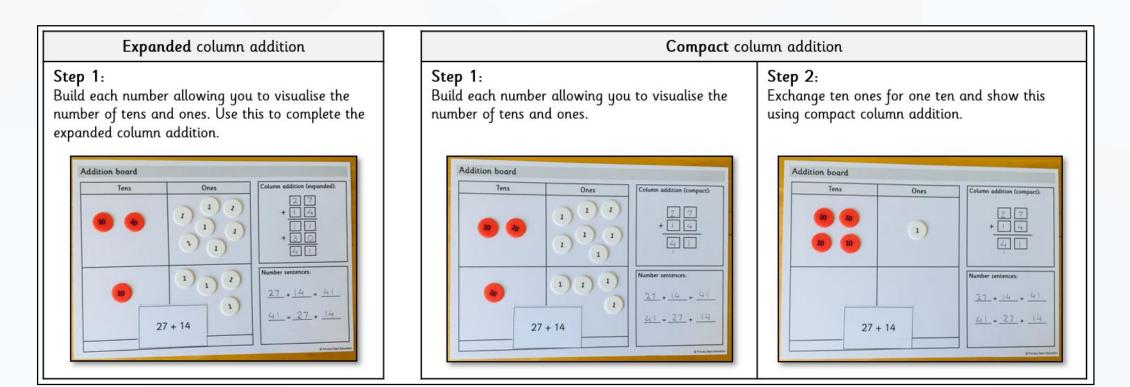




Compact column addition shows the exchange of ten ones to one ten.

Practical:

Select a calculation card and build it using Base 10. Solve the calculation and show this as a column addition.



Remember... ten ones can be exchanged for one ten.

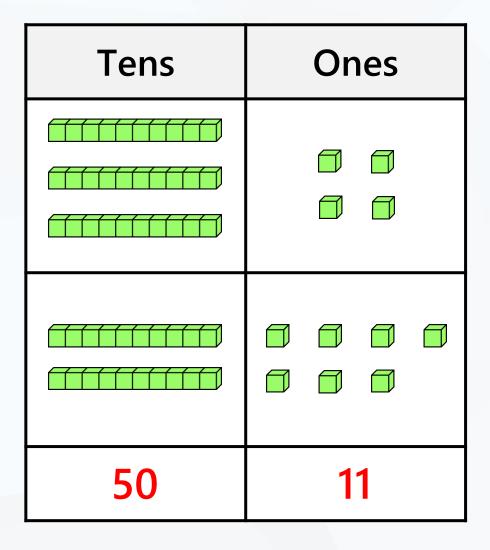
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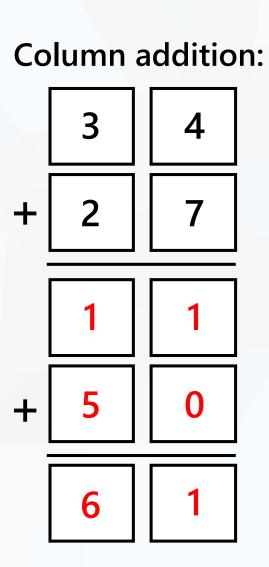


Lesson 3

Step: Add 2-digit numbers (crossing 10)

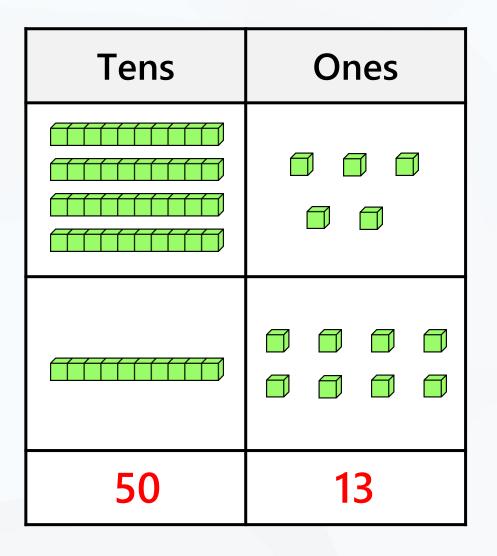
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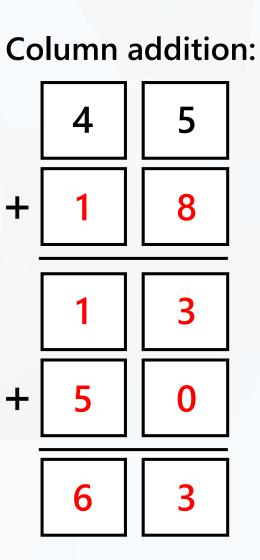




Number sentence:

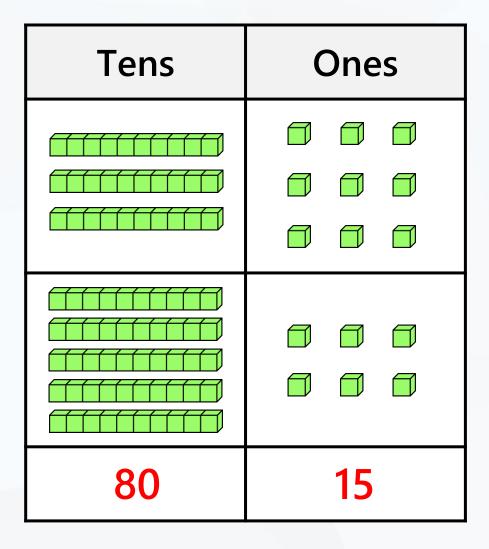


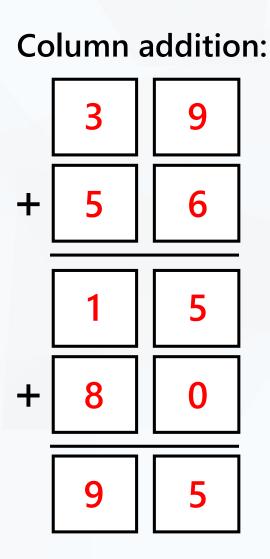




Number sentence:





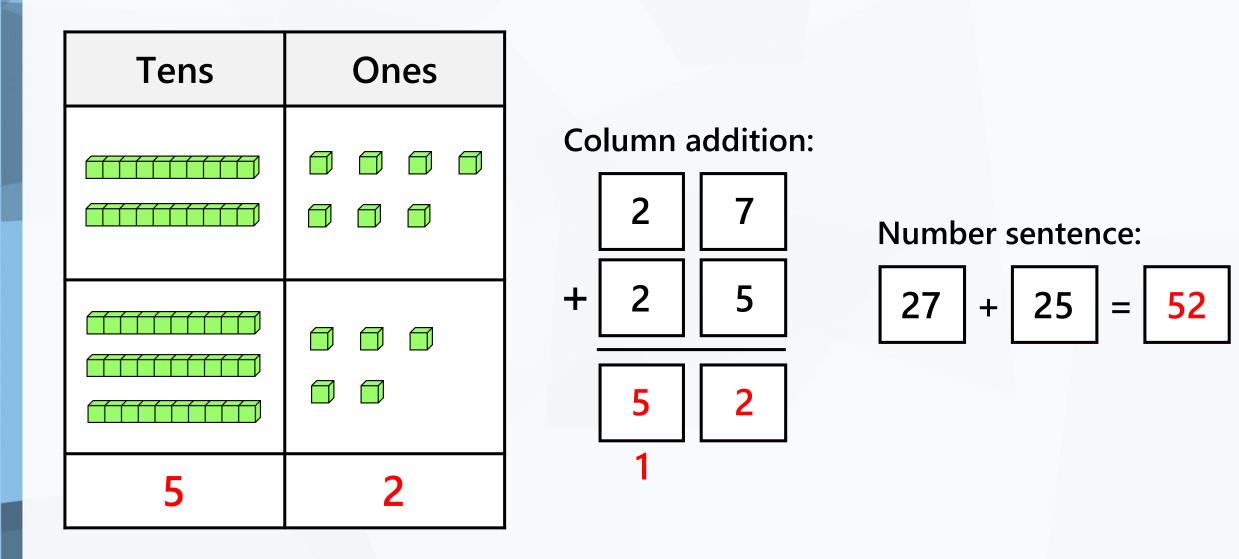


Number sentence:

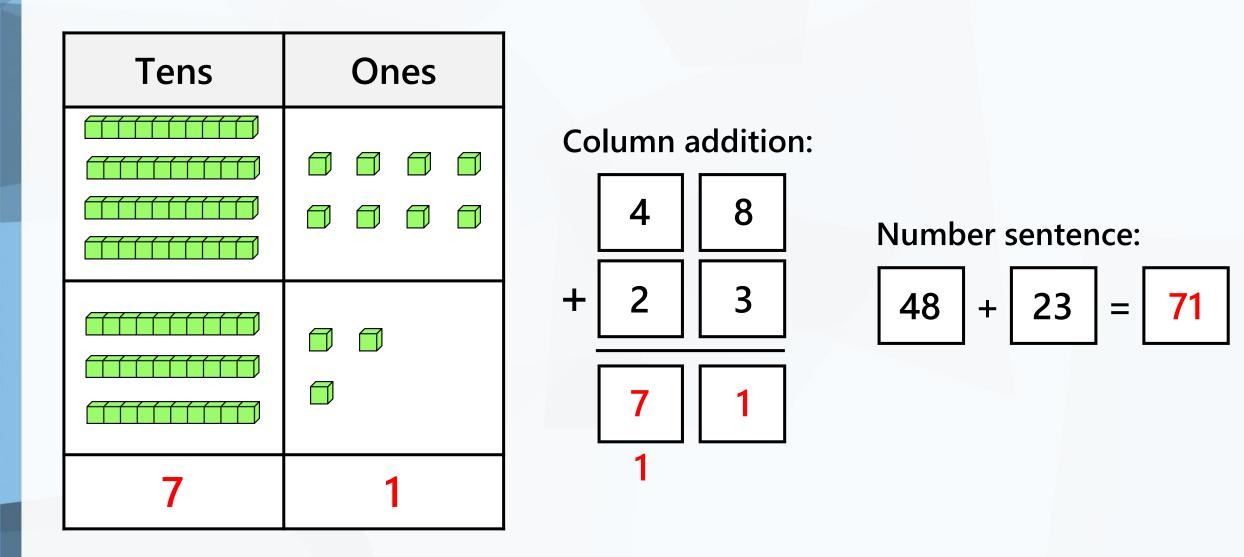


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Compact column addition:



Compact column addition:



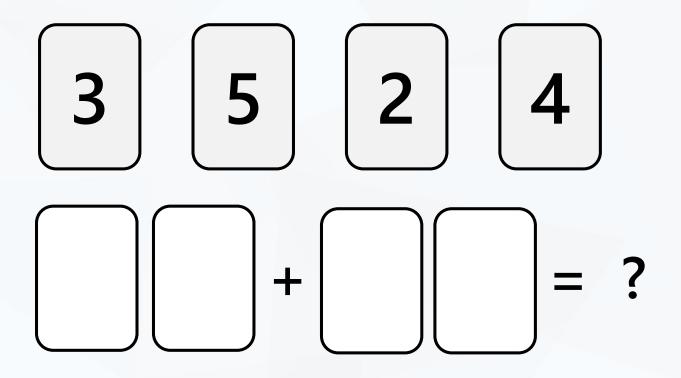
Complete:

Addition problem	Column addition	Part-whole model
33 + 65 = <u>98</u> 3 ones + 5 ones = <u>8</u> ones. 3 tens + 6 tens = <u>9</u> tens. <u>9</u> tens + <u>8</u> ones = <u>98</u>	3 3 + 6 5 9 8	98 33 65

Complete:

Addition problem	Column addition	Part-whole model
24 + 53 =77 4 ones + 3 ones =7 ones. 2 tens + 5 tens =7 tens. 7 tens +7 ones =77	2 4 + 5 3 7 7	(77) (24) (53)

Place all four digit cards in the number sentence below.



What is the largest total you can make? 52 + 43 = 95

What is the smallest total you can make? 25 + 34 = 59

Reasoning

Problem solving

4 tens + 3 ones + 2 tens + ____ ones

The missing number of ones is less than 3.

List all possible ways of completing the calculation.

43 + 22 = 65 43 + 21 = 64 43 + 20 = 63



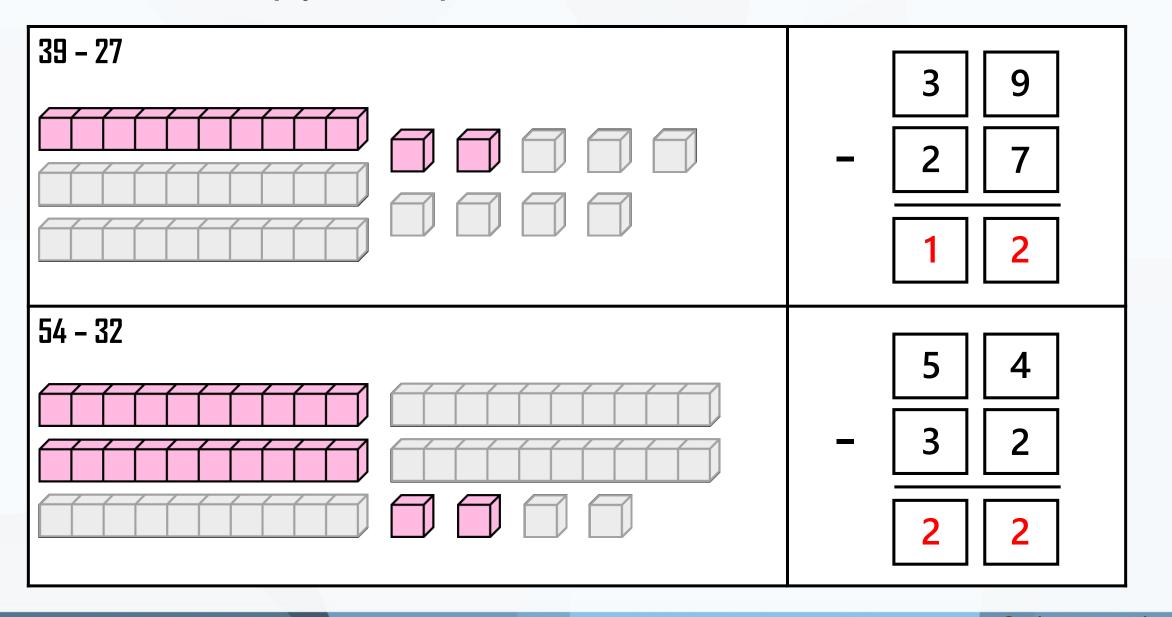
Lesson 4

Step: Subtract with 2-digits (not crossing 10)

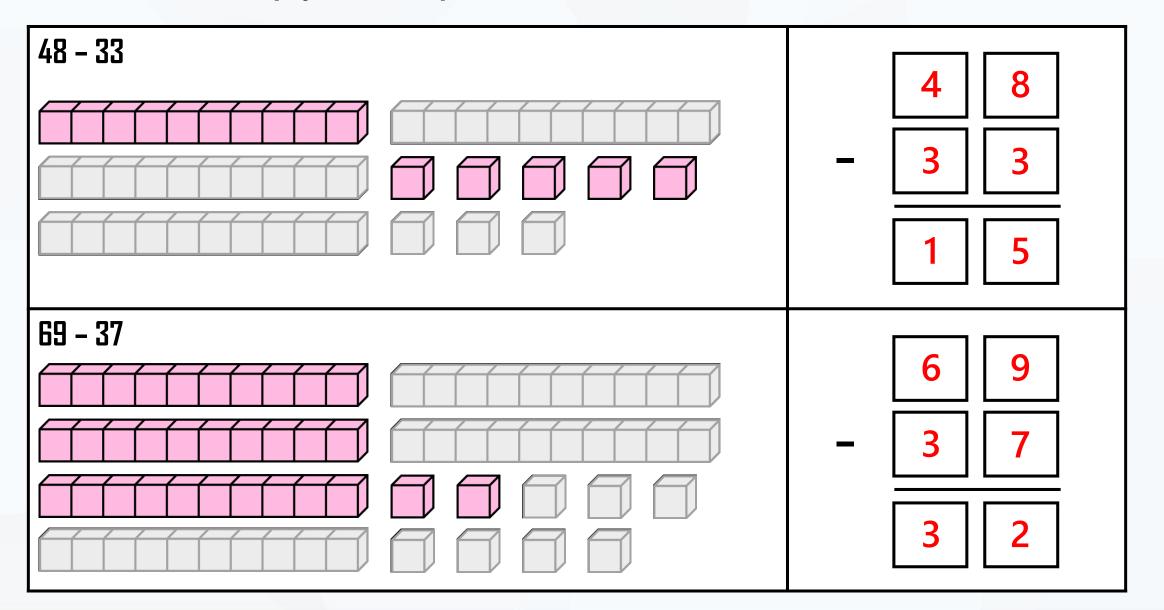
(Practical)

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Use Base 10 to help you complete the subtraction calculations.

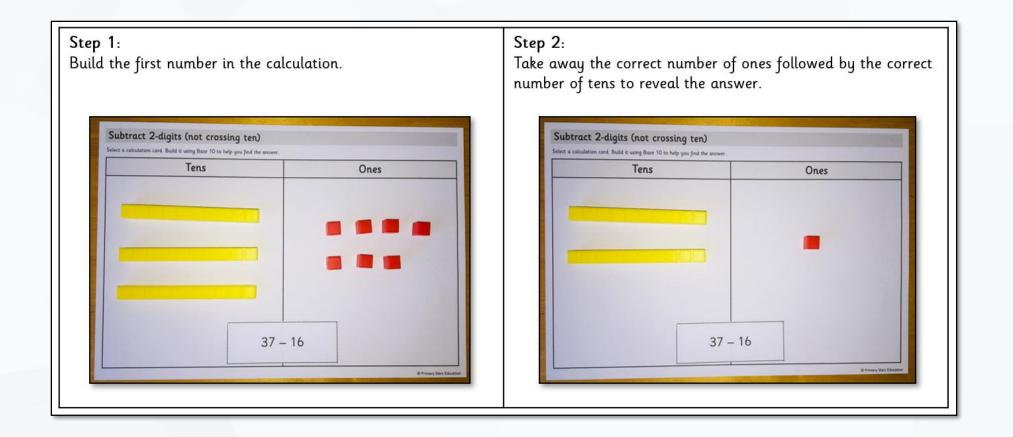


Use Base 10 to help you complete the subtraction calculations.



Practical:

Select a calculation card and build it using Base 10. Solve the calculation and show this as a column subtraction.



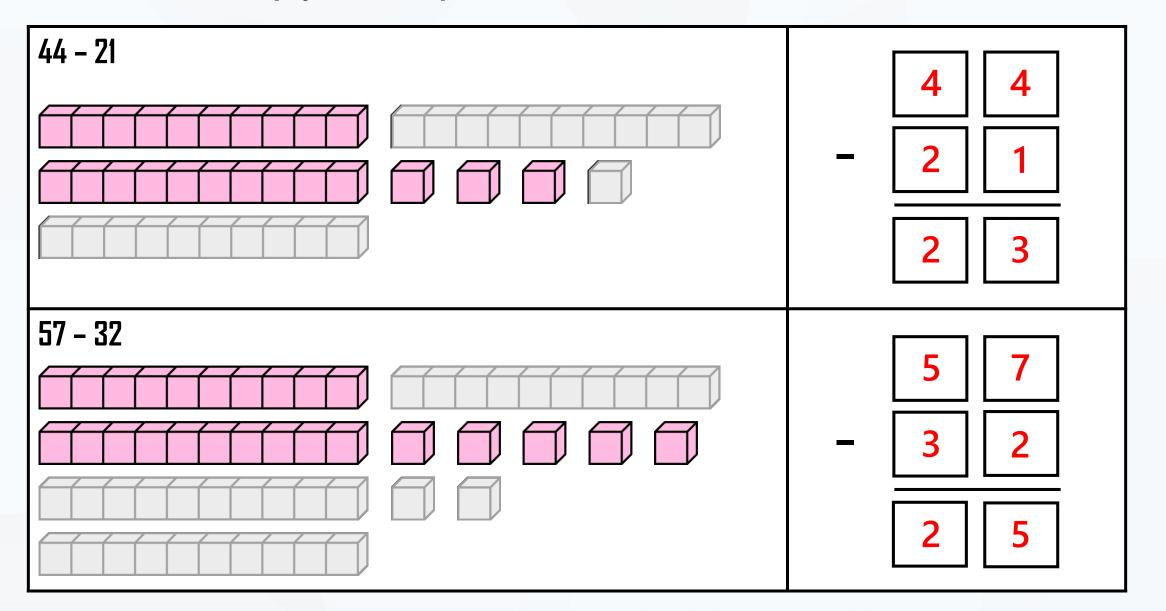


Lesson 5

Step: Subtract with 2-digits (not crossing 10)

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Use Base 10 to help you complete the subtraction calculations.



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Subtraction problem	Column subtraction	Part-whole model
54 - 23 = 31 4 ones - 3 ones = 1 one. 5 tens - 2 tens = 3 tens. 3 tens - 1 one = 31	5 4 - 2 3 3 1	(54) (23) (31)
67 - 22 = 45 7 ones - 2 ones = 5 ones. 6 tens - 2 tens = 4 tens. 4 tens - 5 ones = 45	6 7 - 2 2 4 5	67 (22)(45)

Subtraction problem	Column addition	Part-whole model
75 - 43 = 32 5 ones - 3 ones = 2 ones. 7 tens - 4 tens = 3 tens. 3 tens - 2 ones = 32	7 5 4 3 3 2	(75) (43) (32)
89 - 55 = 34 9 ones - 5 ones = 4 ones. 8 tens - 5 tens = 3 tens. 3 tens - 4 ones = 34	8 9 - 5 5 5 3 4	89 55 34



I have complete the subtraction calculation correctly.

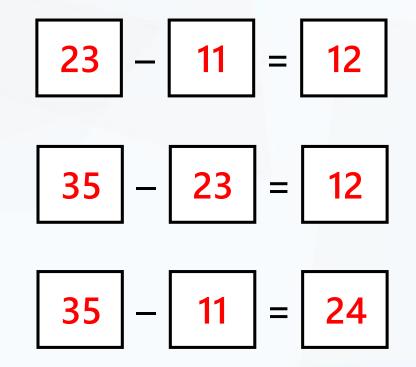
Is Jack correct?

Explain your answer.

No, 78 – 34 = 44. The number in the box should be 5 as 78 – 35 = 43.



- a) How many more marbles does Asha have than Jess?
- b) How many more marbles does Dom have than Asha?
- c) How many more marbles does Dom have than Jess?



Problem solving