

Reasoning and Problem Solving

Step 8: Add and Subtract 10s

National Curriculum Objectives:

Mathematics Year 2: (2C2a) [Add and subtract numbers mentally, including: a two-digit number and tens](#)

Mathematics Year 2: (2C2b) [Add and subtract numbers using concrete objects and pictorial representations, including: a two-digit number and tens](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Cross out counters on a place value chart to show the multiple of 10 that has been subtracted. Calculation represented horizontally using numerals.

Expected Cross out counters on a place value chart to show the multiple of 10 that has been subtracted. Calculation in column format using numerals.

Greater Depth Identify the missing multiple of 10 to complete the calculation. Calculation in column format using numerals.

Questions 2, 5 and 8 (Reasoning)

Developing Explain whether a calculation to solve a problem involving adding or subtracting a multiple of 10 is correct. Calculations presented in a place value chart.

Expected Explain whether a calculation to solve a problem involving adding or subtracting a multiple of 10 is correct. Calculations presented in column format with some pictorial support.

Greater Depth Explain whether a calculation to solve a two-step problem involving adding and subtracting a multiple of 10 is correct. Calculations presented in column format using numerals with no pictorial support.

Questions 3, 6 and 9 (Problem Solving)

Developing Insert the correct symbols to complete a calculation. Calculations presented horizontally using pictorial representation and in a place value chart..

Expected Insert the correct symbols to complete a calculation. Calculations presented in column format with some pictorial support.

Greater Depth Insert the correct symbols to complete a two-step calculation involving addition and subtraction. Calculations presented using numerals and words.



More [Year 2 Addition and Subtraction](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Add and Subtract 10s

1a. Cross out the counters that need to be subtracted to match the calculation.

$$32 - 20 = 12$$

T	O
	





PS

Add and Subtract 10s

1b. Cross out the counters that need to be subtracted to match the calculation.

$$44 - 30 = 14$$




T	O
	



PS

2a. Fatima is given a problem:

I have 12 shells and I collect 10 more.

T	O
	
	

She shows her calculation using a place value chart.





Is she correct? Explain why.



PS

2b. Ivan is given a problem:

I have 22 blueberries and eat 10.

T	O
	
	






He shows his calculation using a place value chart.


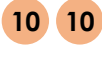
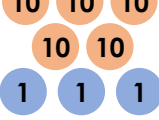


Is he correct? Explain why.



PS

3a. Insert the correct symbols in the boxes below.






T	O
	
	
	


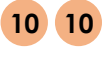
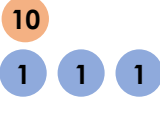


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R

3b. Insert the correct symbols in the boxes below.

T	O
	
	
	

		=	
			



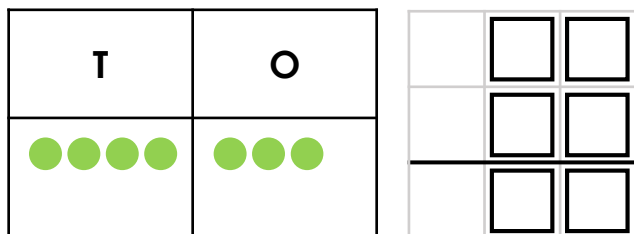
R

Add and Subtract 10s

Add and Subtract 10s

4a. Cross out the counters that need to be subtracted to match the calculation. Record your answer in the column format.

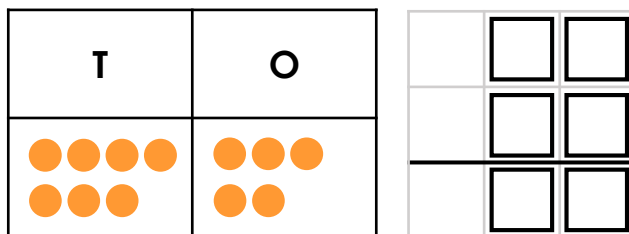
$$43 - 30 = 13$$



PS

4b. Cross out the counters that need to be subtracted to match the calculation. Record your answer in the column format.

$$75 - 40 = 35$$

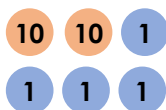


PS

5a. Katie is given a problem:

I have 24 sweets and I am given 30 more.

	2	4
+	3	0
<hr/>		
	5	0



This is her calculation. Is she correct? Explain why.

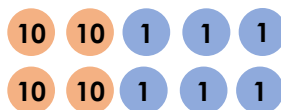


PS

5b. Noah is given a problem:

I have 46 strawberries and I eat 20 of them.

	4	6
-	2	0
<hr/>		
	6	6



This is his calculation. Is he correct? Explain why.

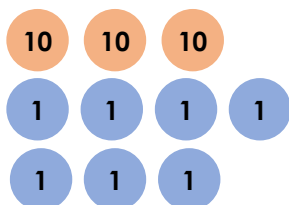
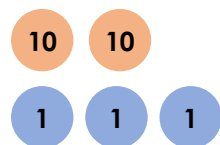


PS

6a. Insert the correct symbols in the boxes below.

	2	3
□	1	0
<hr/>		
	1	3

	3	7
□	2	0
<hr/>		
	5	7

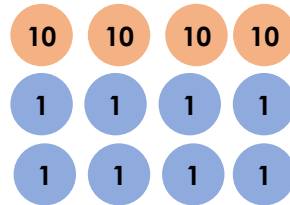
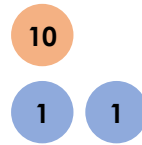


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6b. Insert the correct symbols in the boxes below.

	1	2
□	3	0
<hr/>		
	4	2

	4	8
□	3	0
<hr/>		
	1	8



R

Add and Subtract 10s

7a. Identify the missing number and record the calculation using the column format.

$$\text{ninety-three} - ? = 63$$

	6	3



PS

Add and Subtract 10s

7b. Identify the missing number and record the calculation using the column format.

$$15 + ? = \text{fifty-five}$$

	5	5



PS

8a. Jane is given a problem:

I have 76 beads. I use 30 and then buy pack of 50.

	7	6
-	3	0
	4	0
	4	0
+	5	0
	9	0

This is her calculation. Is she correct? Explain why.



PS

8b. Malachi is given a problem:

I have 39 collectors cards and win another 60 but then lose 40.

	3	9
+	6	0
	9	9
	9	9
-	4	0
	6	9

This is his calculation. Is he correct? Explain why.



PS

9a. Insert the correct symbols in the boxes below.

sixty-three		2 tens		40	=	forty-three
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9b. Insert the correct symbols in the boxes below.

96		8 tens		fifty	=	sixty-six
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Reasoning and Problem Solving Add and Subtract 10s

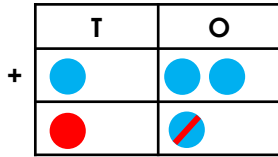
Developing

1a. Cross out 2 counters in the tens column

2a. Fatima is incorrect. She has put the counter in the ones rather than tens.

Correct representation:

$$12 + 10 = 22$$



3a. + and +

Expected

4a. Cross out 3 counters in the tens column; $43 - 30 = 13$

5a. Katie is incorrect. $24 + 30 = 54$

She has only added the tens.

6a. - and +

Greater Depth

7a. Subtract 30; $93 - 30 = 63$

8a. Jane is incorrect. $76 - 30 = 46$ then $46 + 50 = 96$

She has only calculated the tens in the first part which means her second part is also incorrect.

9a. $63 + 20 - 40 = 43$

Reasoning and Problem Solving Add and Subtract 10s

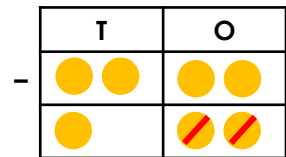
Developing

1b. Cross out 3 counters in the tens column.

2b. Ivan is incorrect. He has subtracted 12 rather than 10.

Correct representation:

$$22 - 10 = 12$$



3b. - and -

Expected

4b. Cross out 4 counters in the tens column; $75 - 40 = 35$

5b. Noah is incorrect. $46 - 20 = 26$

He has added the tens rather than subtracting them.

6b. + and -

Greater Depth

7b. Add 40; $15 + 40 = 55$

8b. Malachi is incorrect. $39 + 60 = 99$ then $99 - 40 = 59$ He has made an error subtracting 4 from 9 in the second part.

9b. $96 - 80 + 50 = 66$