

# Varied Fluency

## Step 11: Add 2-Digit Numbers 1

### 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:

**Developing** Questions to support adding two 2-digit numbers (to total less than 50). No exchanging; numerals only.

**Expected** Questions to support adding two 2-digit numbers (to total less than 100). No exchanging; numerals and words.

**Greater Depth** Questions to support adding a 2-digit number to a 3-digit number (to total less than 200). No exchanging; numerals and words.

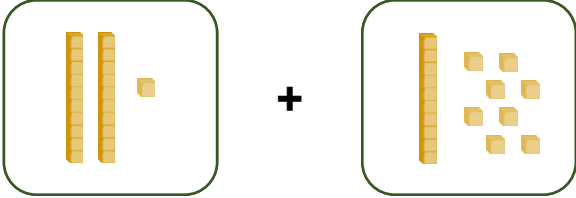
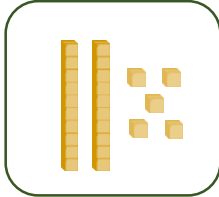
[More resources](#) which follow the same small steps as White Rose.

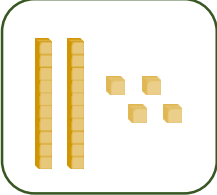
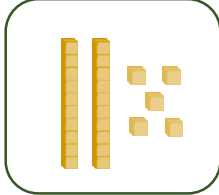
Did you like this resource? Don't forget to [review](#) it on our website.

# Add 2-Digit Numbers 1

# Add 2-Digit Numbers 1

1a. Write out the number sentences and solve the calculations.

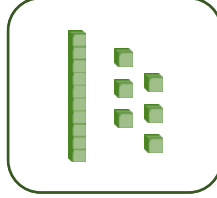
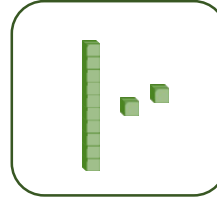
A  + 

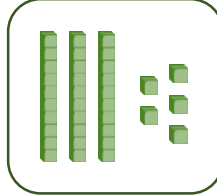
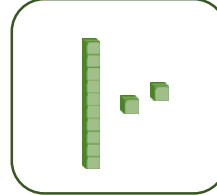
B  + 



VF

1b. Write out the number sentences and solve the calculations.

A  + 

B  + 



VF

2a. Match each calculation with the correct answer.

- |           |      |
|-----------|------|
| $18 + 30$ | $49$ |
| $22 + 27$ | $34$ |
| $17 + 21$ | $48$ |
| $20 + 14$ | $38$ |



VF

2b. Match each calculation with the correct answer.

- |           |      |
|-----------|------|
| $31 + 15$ | $48$ |
| $24 + 15$ | $46$ |
| $30 + 18$ | $49$ |
| $12 + 37$ | $39$ |



VF

3a. Use column addition to solve the calculations.

A	B	C
$\begin{array}{ c c } \hline 2 & 3 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 8 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 6 \\ \hline \end{array}$
$\begin{array}{ c c } \hline + & 3 & 3 \\ \hline \end{array}$	$\begin{array}{ c c } \hline + & 2 & 1 \\ \hline \end{array}$	$\begin{array}{ c c } \hline + & 1 & 2 \\ \hline \end{array}$
<hr/>	<hr/>	<hr/>



VF

3b. Use column addition to solve the calculations.

A	B	C
$\begin{array}{ c c } \hline 3 & 2 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 2 & 6 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 8 \\ \hline \end{array}$
$\begin{array}{ c c } \hline + & 1 & 5 \\ \hline \end{array}$	$\begin{array}{ c c } \hline + & 2 & 0 \\ \hline \end{array}$	$\begin{array}{ c c } \hline + & 3 & 1 \\ \hline \end{array}$
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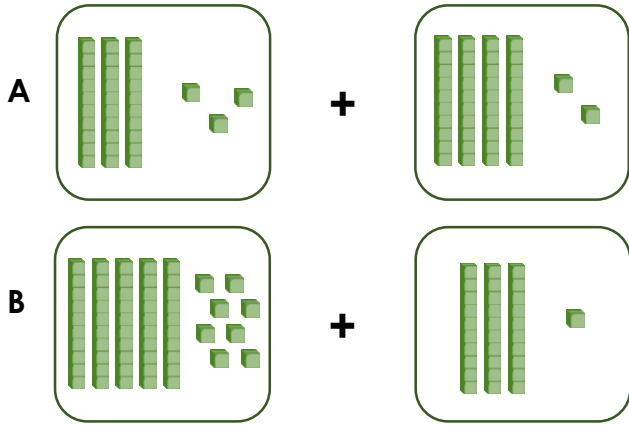


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# Add 2-Digit Numbers 1

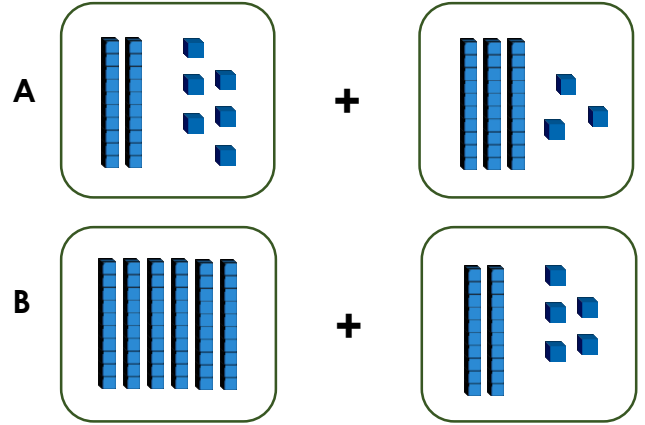
# Add 2-Digit Numbers 1

4a. Write out the number sentences and solve the calculations.



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4b. Write out the number sentences and solve the calculations.



VF

5a. Match each calculation with the correct answer.

$56 + 22$	$79$
$68 + 31$	$78$
$15 + 40$	$99$
$18 + 61$	$55$



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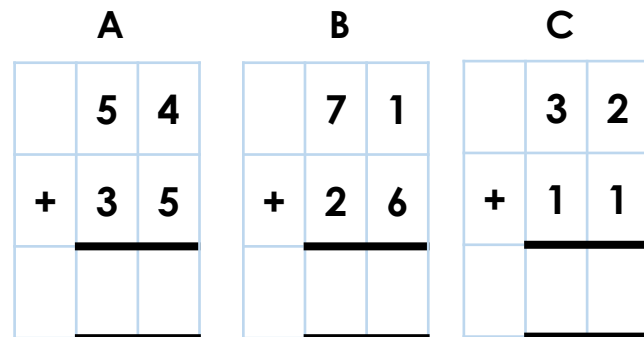
5b. Match each calculation with the correct answer.

$71 + 12$	$76$
$46 + 30$	$83$
$28 + 41$	$89$
$55 + 34$	$69$



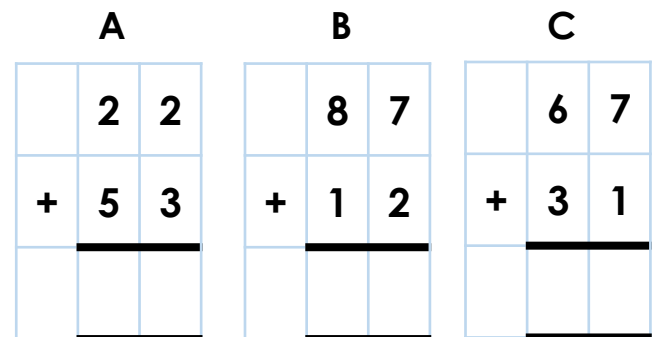
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6a. Use column addition to solve the calculations.



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6b. Use column addition to solve the calculations.

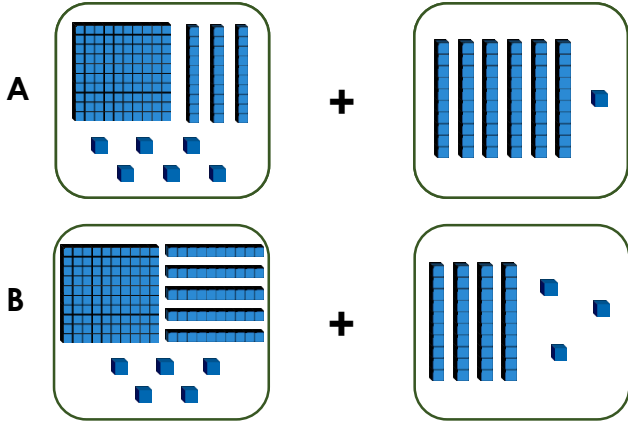


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# Add 2-Digit Numbers 1

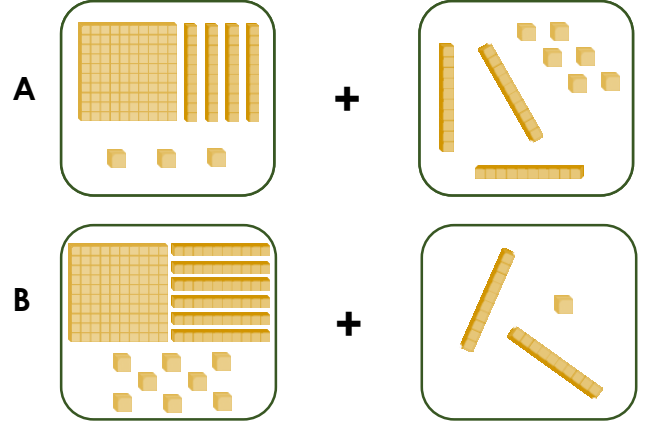
# Add 2-Digit Numbers 1

7a. Write out the number sentences and solve the calculations.



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7b. Write out the number sentences and solve the calculations.



VF

8a. Match each calculation with the correct answer.

- |            |       |
|------------|-------|
| $123 + 46$ | $188$ |
| $138 + 50$ | $159$ |
| $119 + 40$ | $169$ |
| $132 + 44$ | $176$ |



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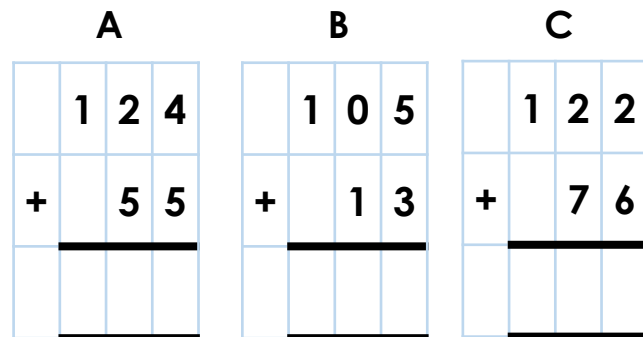
8b. Match each calculation with the correct answer.

- |            |       |
|------------|-------|
| $127 + 52$ | $176$ |
| $114 + 63$ | $177$ |
| $136 + 42$ | $178$ |
| $163 + 13$ | $179$ |



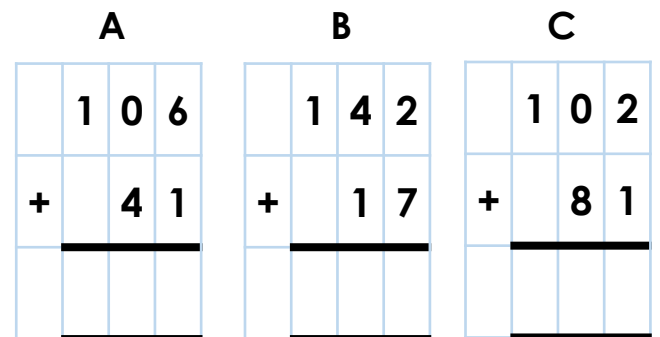
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9a. Use column addition to solve the calculations.



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9b. Use column addition to solve the calculations.



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Varied Fluency  
Add 2-Digit Numbers 1

Developing

1a.  $21 + 18 = 39$ ;  $24 + 25 = 49$

2a.  $18 + 30$   ~~$49$~~

$22 + 27$   ~~$34$~~

$17 + 21$   ~~$48$~~

$20 + 14$   ~~$38$~~

3a.  $A = 56$ ,  $B = 39$ ,  $C = 28$

Expected

4a.  $33 + 42 = 75$ ;  $58 + 31 = 89$

5a.  $56 + 22$   ~~$79$~~

$68 + 31$   ~~$78$~~

$15 + 40$   ~~$99$~~

$18 + 61$   ~~$55$~~

6a.  $A = 89$ ,  $B = 97$ ,  $C = 43$

Greater Depth

7a.  $136 + 61 = 197$ ;  $155 + 43 = 198$

8a.  $123 + 46$   ~~$188$~~

$138 + 50$   ~~$159$~~

$119 + 40$   ~~$169$~~

$132 + 44$   $176$

9a.  $A = 179$ ,  $B = 118$ ,  $C = 198$

Varied Fluency  
Add 2-Digit Numbers 1

Developing

1b.  $16 + 23 = 39$ ;  $35 + 12 = 47$

2b.  $31 + 15$   ~~$48$~~

$24 + 15$   ~~$46$~~

$30 + 18$   ~~$49$~~

$12 + 37$   ~~$39$~~

3b.  $A = 47$ ,  $B = 46$ ,  $C = 49$

Expected

4b.  $26 + 33 = 59$ ;  $60 + 25 = 85$

5b.  $71 + 12$   ~~$76$~~

$46 + 30$   ~~$83$~~

$28 + 41$   ~~$89$~~

$55 + 34$   ~~$69$~~

6b.  $A = 75$ ,  $B = 99$ ,  $C = 98$

Greater Depth

7b.  $143 + 36 = 179$ ;  $168 + 21 = 189$

8b.  $127 + 52$   ~~$176$~~

$114 + 63$   ~~$177$~~

$136 + 42$   ~~$178$~~

$163 + 13$   ~~$179$~~

9b.  $A = 147$ ,  $B = 159$ ,  $C = 183$