



Add two 3-digit numbers using rounding to the nearest hundred and then compensating

Add two 3 digit numbers by partitioning and recombining (no regrouping)

Add two 2 digit numbers where the sum exceeds 100, choosing an efficient mental strategy

Add 99 to three-digit numbers using rounding to the nearest hundred and then compensating

Add hundreds to three-digit numbers using number facts

Add tens to three-digit numbers using bridging

Year 3

Unit 4

Addition and Subtraction: Mental Methods Addition

Add tens to three-digit numbers using number facts, where the hundreds don't change

Add ones to three-digit numbers by rounding to ten then compensating

Add ones to three-digit numbers using bridging

Add ones to three-digit numbers using number facts where the tens don't change



Curriculum Progression

Manageable Steps 1 - 4

Depth of Understanding

		Add ones to 3-digit numbers using number facts where the tens don't change	Add ones to 3-digit numbers using bridging	Add ones to 3-digit numbers by rounding to ten then compensating	Add tens to 3-digit numbers using number facts, where the hundreds don't change
What it is What it is also		Calculate: $143 + 5 =$ $243 + 5 =$ $343 + 5 =$ $3 + 465 =$ $\square = 652 + 7$	Calculate: $147 + 5 =$ $247 + 5 =$ $347 + 5 =$ $7 + 695 =$ $\square = 758 + 5$	Calculate: $147 + 9 =$ $247 + 9 =$ $305 + 9 =$ $9 + 615 =$ $\square = 199 + 9$	Calculate: $152 + 30 =$ $252 + 30 =$ $352 + 30 =$ $50 + 412 =$ $\square = 608 + 70$
What it is not		Coco thinks that: $523 + 4 = 923$ Explain why she is incorrect.	Coco thinks that: $547 + 6 = 5413$ Explain why she is incorrect.	Coco thinks that: $712 + 9 = 723$ Explain why she is incorrect.	Coco thinks that: $213 + 60 = 219$ Explain why she is incorrect.
What problems can I solve?		Always/ Sometimes/ Never True When adding ones to a three-digit number, only the ones digit changes	Find the missing digits. $2\square7 + \square = \square1\square$ $583 = \square7\square + \square$ $4\square\square + 9 = 42\square$ Solve each calculation in several different ways. Solve all the calculations together using the digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 once each.	Find the missing digits. $4\square\square + 9 = 4\square\square$ Solve the calculation in several different ways. Solve the problem using 4 consecutive digits in several ways. Solve the problem using only 2 different digits.	Always/ Sometimes/ Never True When adding tens to a three-digit number, only the tens digit changes

Curriculum Progression

Manageable Steps 5 - 8

Depth of Understanding

	Add tens to 3-digit numbers using bridging	Add hundreds to 3-digit numbers using number facts	Add 99 to 3-digit numbers using rounding to the nearest hundred and then compensating	Add two 3-digit numbers using rounding to the nearest hundred and then compensating
What it is What it is also	Calculate: $182 + 30 =$ $282 + 30 =$ $392 + 30 =$ $70 + 482 =$ $\square = 628 + 90$	Calculate: $182 + 300 =$ $282 + 300 =$ $541 + 400 =$ $700 + 281 =$ $\square = 497 + 500$	Calculate: $173 + 99 =$ $273 + 99 =$ $403 + 99 =$ $99 + 650 =$ $\square = 399 + 99$	Calculate: $173 + 199 =$ $173 + 299 =$ $405 + 199 =$ $399 + 560 =$ $\square = 199 + 299$
What it is not	Coco thinks that: $563 + 80 = 743$ Explain why she is incorrect.	Coco thinks that $263 + 500 = 862$ Explain why she is incorrect.	Coco thinks that $624 + 99 = 725$ Explain why she is incorrect.	Coco thinks that $609 + 199 = 810$ Explain why she is incorrect.
What problems can I solve?	Find the missing digits. $\square\square 8 + \square 0 = 31\square$ $6\square 9 = 5\square 9 + \square\square$ $4\square 8 + \square 0 = 528$ Solve each calculation several different ways. Solve all the calculations together using the digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 once each.	Always/ Sometimes/ Never True When adding hundreds to a three-digit number, only the hundreds digit changes	Always/ Sometimes/ Never True To add 99 to a three-digit number, you need to round and adjust.	Find the missing digits. $\square\square 9 + 199 = 7\square\square$ Solve the calculation in several different ways. Investigate solving the problem using four different digits.

Curriculum Progression

Manageable Steps 9 - 10

Curriculum Progression				
Manageable Steps 9 - 10				
Depth of Understanding	What it is What it is also	 Add two 3 digit numbers by partitioning and recombining (no regrouping)	Add two 2-digit numbers where the sum exceeds 100, choosing an efficient mental strategy	
	What it is not	Calculate: $345 + 123 =$ $543 + 123 =$ $621 + 378 =$ $452 + 537 =$ $\square = 824 + 175$	Calculate: $45 + 60 =$ $53 + 99 =$ $30 + 82 =$ $45 + 63 =$ $\square = 70 + 39$	
	What problems can I solve?	$A + B = 978$ A and B are 3-digit numbers All the digits of A and B are different. Find possible values for A and B.	Always/ Sometimes/ Never True A written method is needed to add two 2-digit numbers.	