Unit 5 · Addition and Subtraction within 100 Cheat Sheet

Unit 5 focus: adding and subtracting two-digit numbers by place value

1 Big Idea

Add or subtract tens with tens and ones with ones. Make a ten when there are 10 or more ones. Break apart a ten when there are not enough ones.

2 Important Vocabulary

regroup	Trade 10 ones for 1 ten, or 1 ten for 10 ones.	17 ones = 1 ten and 7 ones
break apart	Split a number into tens and ones.	38 = 30 + 8
count up	Add on from the smaller number to the larger one to find a difference.	38 to 40 to 70 to 72 is 34
check	Use the opposite operation to see if an answer is right.	63 − 28 = 35, check: 35 + 28 = 63

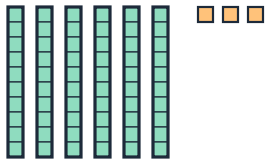
3 How It Works

Subtract 63 − 28.

Example: 63 − 28
Not enough ones: 63 = 5 tens and 13 ones
Ones: 13 − 8 = 5
Tens: 5 − 2 = 3

Answer: 35

4 Visual Model



63: trade 1 ten for 10 ones to get 5 tens and 13 ones.

5 Remember This · Watch Out!

★ Remember this

- Check subtraction by adding.
- Count up from the smaller number to subtract.

⚠ Watch out!

- **47 + 35 = 712:** 10 or more ones make a new ten: 82
- **52 − 27 = 35:** do not subtract smaller from larger in each place

6 Try It!

1. 38 + 46
   Answer: 84
2. 70 − 24
   Answer: 46

Answers are printed upside down. Turn the page to check!

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More practice: adding up to four numbers and explaining strategies

1 Big Idea

Add three or four numbers in any order. Look for numbers that make a ten.

2 Important Vocabulary

commutative property	Adding in any order gives the same sum.	36 + 47 = 47 + 36
associative property	Grouping addends in any way gives the same sum.	(23 + 17) + 15 = 23 + (17 + 15)
compensation	Change one number to make it friendly, then fix the answer.	48 + 25 = 50 + 23
open number line	A number line with only the numbers you need.	45 → 75 → 82 for 45 + 37

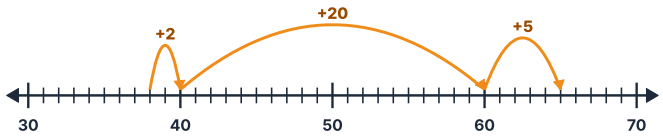
3 How It Works

Add 24 + 15 + 36.

Example: 24 + 15 + 36
Friendly pair: 24 + 36 = 60
Add the rest: 60 + 15 = 75

Answer: 75

4 Visual Model



Count up from 38 to 65: 2 + 20 + 5 = 27, so 65 − 38 = 27.

5 Remember This · Watch Out!

★ Remember this

- Changing the order of addends does not change the sum.
- Explain using tens and ones.

⚠ Watch out!

- **Losing an addend:** cross off each number as you add it
- **Forgetting new tens:** ones can make 2 new tens: 9 + 8 + 7 = 24

6 Try It!

1. 16 + 22 + 14 + 30
   Answer: 82
2. 49 + 26 = 50 + ___
   Answer: 25

Answers are printed upside down. Turn the page to check!