Think Before You Add

GOAL Decide what a sum will be close to, and which places will trade, before you add.

1 More or less?

249 + 186 Will the sum be more or less than 400? ☐ more ☐ less

How do you know?

2 Is Lena correct?

Lena says: 376 + 248 needs only one trade, because only the ones make a new ten.

Is Lena correct? ☐ yes ☐ no Explain why.

3 Which answer makes sense?

457 + 286 = ☐ 733 ☐ 743 ☐ 643

Tick the answer that makes sense. Why are the other two wrong?

4 Which hundreds?

385 + 128 Will the sum be in the 400s or the 500s? ☐ 400s ☐ 500s

How do you know?

5 Is Theo correct?

Theo says: In 492 + 309 the tens are 9 + 0 = 9, so the tens will not trade.

Is Theo correct? ☐ yes ☐ no Explain why.

Two Trades in One Sum

GOAL Add three-digit numbers that need two trades, and explain each trade.

6 Notice

Which sum needs **two** trades? ☐ **247 + 126** ☐ **268 + 157**

How can you tell before adding? _____

7 Notice again

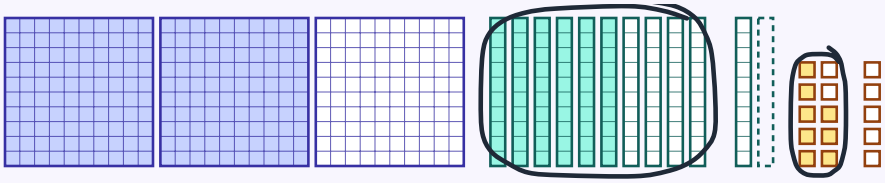
Which sum needs **two** trades? ☐ **356 + 172** ☐ **437 + 285**

Which place trades in the other sum? _____

8 Watch two trades

WORKED EXAMPLE

268 + 157 = 425



Shaded: 268
White: 157
Circled: 10 ones and 10 tens

	Hundreds	Tens	Ones
joined	3	11	15
trade 1	3	12	5
trade 2	4	2	5

Trade 1. 8 + 7 = 15 ones. Trade 10 ones for 1 ten: write 5 ones and put the new ten with the tens.
Trade 2. 6 + 5 + **1** = 12 tens. Trade 10 tens for 1 hundred: write 2 tens and put the new hundred with the hundreds.
Hundreds. 2 + 1 + **1** = 4 hundreds.

	H	T	O
	2	6	8
+	1	5	7
	1	1	
	4	2	5

In the column, each small **1** is written in the place it moves to, just above the line: the first is **1 ten**, the second is **1 hundred**.

Two Trades, Step by Step

GOAL Add with two trades one place at a time, and write each new unit in its box.

9 Your turn, with help

Work one place at a time. Fill each box, then write the sum in the column too.

a. 358 + 265

Ones: 8 + 5 = ☐ ones. Write ☐ ones, trade 10 ones for ☐ ten.

Tens: 5 + 6 + ☐ = ☐ tens. Write ☐ tens, trade 10 tens for ☐ hundred.

Hundreds: 3 + 2 + ☐ = ☐ hundreds.

358 + 265 = _____

	H	T	O
	3	5	8
+	2	6	5
	☐	☐	

b. 189 + 246

Ones: 9 + 6 = ☐ ones. Write ☐ ones, trade 10 ones for ☐ ten.

Tens: 8 + 4 + ☐ = ☐ tens. Write ☐ tens, trade 10 tens for ☐ hundred.

Hundreds: 1 + 2 + ☐ = ☐ hundreds.

189 + 246 = _____

	H	T	O
	1	8	9
+	2	4	6
	☐	☐	

Which Places Trade?

GOAL Decide which places will trade before you add.

10 Which places trade?

First tick the places that will trade. Then add.

248 + 136

Trades:
☐ ones ☐ tens ☐ none

H	T	O
2	4	8
+ 1	3	6
☐	☐	

273 + 154

Trades:
☐ ones ☐ tens ☐ none

H	T	O
2	7	3
+ 1	5	4
☐	☐	

386 + 247

Trades:
☐ ones ☐ tens ☐ none

H	T	O
3	8	6
+ 2	4	7
☐	☐	

214 + 123

Trades:
☐ ones ☐ tens ☐ none

H	T	O
2	1	4
+ 1	2	3
☐	☐	

395 + 207

Trades:
☐ ones ☐ tens ☐ none

H	T	O
3	9	5
+ 2	0	7
☐	☐	

405 + 95

Trades:
☐ ones ☐ tens ☐ none

H	T	O
4	0	5
+	9	5
☐	☐	

11 Explain

In 268 + 157, the small 1 in the hundreds column is worth **100**, not 1. Why?

Find and Fix

GOAL Find trading and lining-up mistakes, and explain them.

12 Find Leo's mistake

Leo's work

	H	T	O
	4	7	6
+	3	5	8
	1	☐	
	8	2	4

Circle the column where Leo made a mistake. What did he forget?

_____

_____

476 + 358 = _____

13 Find Ana's mistake

Ana's work

	H	T	O
	3	8	5
+	4	6	
	8	4	5

What went wrong? Add it the right way.

_____

_____

	H	T	O
+		☐	☐

385 + 46 = _____

14 Make your own

Write two 3-digit numbers that need a trade in the ones **and** in the tens. Keep the sum less than 1,000. Add them.

_____ + _____ = _____

Show your work.

Think Before You Add

GOAL Decide what a sum will be close to, and which places will trade, before you add.

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249 + 186 Will the sum be more or less than 400? ☐ more ☐ less

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3 Which answer makes sense?

457 + 286 = ☐ 733 ☐ 743 ☐ 643

Tick the answer that makes sense. Why are the other two wrong?

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385 + 128 Will the sum be in the 400s or the 500s? ☐ 400s ☐ 500s

How do you know?

5 Is Theo correct?

Theo says: In 492 + 309 the tens are 9 + 0 = 9, so the tens will not trade.

Is Theo correct? ☐ yes ☐ no Explain why.

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Which sum needs **two** trades? ☐ **247 + 126** ☐ **268 + 157**

How can you tell before adding? _____

7 Notice *again*

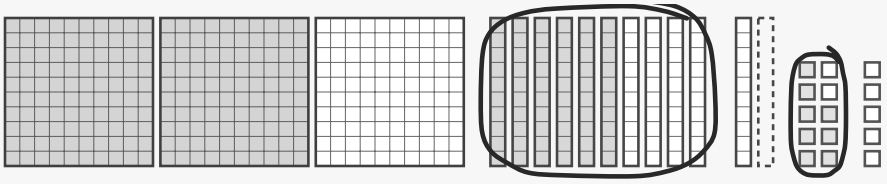
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	Hundreds	Tens	Ones
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Trade 2. 6 + 5 + **1** = 12 tens. Trade 10 tens for 1 hundred: write 2 tens and put the new hundred with the hundreds.
Hundreds. 2 + 1 + **1** = 4 hundreds.

	H	T	O
	2	6	8
+	1	5	7
	1	1	
	4	2	5

In the column, each small **1** is written in the place it moves to, just above the line: the first is **1 ten**, the second is **1 hundred**.

Two Trades, Step by Step

GOAL Add with two trades one place at a time, and write each new unit in its box.

9 Your turn, with help

Work one place at a time. Fill each box, then write the sum in the column too.

a. 358 + 265

Ones: 8 + 5 = ☐ ones. Write ☐ ones, trade 10 ones for ☐ ten.

Tens: 5 + 6 + ☐ = ☐ tens. Write ☐ tens, trade 10 tens for ☐ hundred.

Hundreds: 3 + 2 + ☐ = ☐ hundreds.

358 + 265 = _____

H	T	O
	3	5	8
+	2	6	5
	☐	☐	

b. 189 + 246

Ones: 9 + 6 = ☐ ones. Write ☐ ones, trade 10 ones for ☐ ten.

Tens: 8 + 4 + ☐ = ☐ tens. Write ☐ tens, trade 10 tens for ☐ hundred.

Hundreds: 1 + 2 + ☐ = ☐ hundreds.

189 + 246 = _____

H	T	O
	1	8	9
+	2	4	6
	☐	☐	

Which Places Trade?

GOAL Decide which places will trade before you add.

10 Which places trade?

First tick the places that will trade. Then add.

248 + 136

Trades:
☐ ones ☐ tens ☐ none

H	T	O
2	4	8
+ 1	3	6
☐	☐	

273 + 154

Trades:
☐ ones ☐ tens ☐ none

H	T	O
2	7	3
+ 1	5	4
☐	☐	

386 + 247

Trades:
☐ ones ☐ tens ☐ none

H	T	O
3	8	6
+ 2	4	7
☐	☐	

214 + 123

Trades:
☐ ones ☐ tens ☐ none

H	T	O
2	1	4
+ 1	2	3
☐	☐	

395 + 207

Trades:
☐ ones ☐ tens ☐ none

H	T	O
3	9	5
+ 2	0	7
☐	☐	

405 + 95

Trades:
☐ ones ☐ tens ☐ none

H	T	O
4	0	5
+	9	5
☐	☐	

11 Explain

In 268 + 157, the small 1 in the hundreds column is worth **100**, not 1. Why?

Find and Fix

GOAL Find trading and lining-up mistakes, and explain them.

12 Find Leo's mistake

Leo's work

	H	T	O
	4	7	6
+	3	5	8
	1	☐	
	8	2	4

Circle the column where Leo made a mistake. What did he forget?

476 + 358 = _____

13 Find Ana's mistake

Ana's work

	H	T	O
	3	8	5
+	4	6	
	8	4	5

What went wrong? Add it the right way.

	H	T	O
+		☐	☐

385 + 46 = _____

14 Make your own

Write two 3-digit numbers that need a trade in the ones **and** in the tens. Keep the sum less than 1,000. Add them.

_____ + _____ = _____

Show your work.

Think Before You Add

Answers in blue. Accept other clear reasons.

1 More or less?

249 + 186 Will the sum be more or less than 400? ☑ more ☐ less

How do you know?

200 + 100 = 300, and 49 + 86 is more than 100, so the sum is more than 400.

2 Is Lena correct?

Lena says: 376 + 248 needs only one trade, because only the ones make a new ten.

Is Lena correct? ☐ yes ☑ no Explain why.

No. 6 + 8 = 14 ones make a new ten, then 7 + 4 + 1 = 12 tens make a new hundred.

3 Which answer makes sense?

457 + 286 = ☐ 733 ☑ 743 ☐ 643

Tick the answer that makes sense. Why are the other two wrong?

733 forgets the new ten from 13 ones. 643 forgets the new hundred from 14 tens.

4 Which hundreds?

385 + 128 Will the sum be in the 400s or the 500s? ☐ 400s ☑ 500s

How do you know?

300 + 100 = 400, and 85 + 28 = 113, more than 100, so the sum is in the 500s.

5 Is Theo correct?

Theo says: In 492 + 309 the tens are 9 + 0 = 9, so the tens will not trade.

Is Theo correct? ☐ yes ☑ no Explain why.

No. 2 + 9 = 11 ones make a new ten, so the tens are 9 + 0 + 1 = 10: they trade too.

Two Trades in One Sum

Answers in blue. The new units can also be written above the top number; accept either if they are in the right column.

6 Notice

Which sum needs **two** trades? ☐ **247 + 126** ☑ **268 + 157**

How can you tell before adding? 15 ones make a ten; then 6 + 5 + 1 = 12 tens make a hundred.

7 Notice again

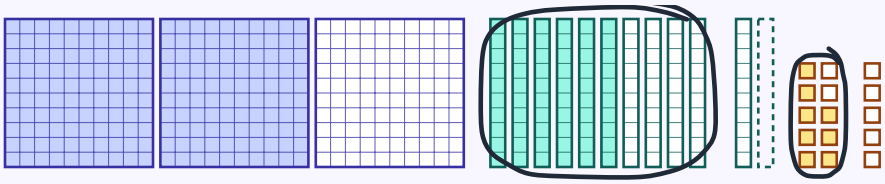
Which sum needs **two** trades? ☐ **356 + 172** ☑ **437 + 285**

Which place trades in the other sum? Only the tens: 6 + 2 = 8 ones, but 5 + 7 = 12 tens.

8 Watch two trades

WORKED EXAMPLE

268 + 157 = 425



Shaded: 268
White: 157
Circled: 10 ones and 10 tens

	Hundreds	Tens	Ones
joined	3	11	15
trade 1	3	12	5
trade 2	4	2	5

Trade 1. 8 + 7 = 15 ones. Trade 10 ones for 1 ten: write 5 ones and put the new ten with the tens.
Trade 2. 6 + 5 + **1** = 12 tens. Trade 10 tens for 1 hundred: write 2 tens and put the new hundred with the hundreds.
Hundreds. 2 + 1 + **1** = 4 hundreds.

	H	T	O
	2	6	8
+	1	5	7
	1	1	
	4	2	5

In the column, each small **1** is written in the place it moves to, just above the line: the first is **1 ten**, the second is **1 hundred**.

Two Trades, Step by Step

Answers in blue, with each new ten or hundred in its box.

9 Your turn, with help

Work one place at a time. Fill each box, then write the sum in the column too.

a. 358 + 265

Ones: 8 + 5 = [13] ones. Write [3] ones, trade 10 ones for [1] ten.

Tens: 5 + 6 + [1] = [12] tens. Write [2] tens, trade 10 tens for [1] hundred.

Hundreds: 3 + 2 + [1] = [6] hundreds.

358 + 265 = 623

	H	T	O
	3	5	8
+	2	6	5
	1	1	
	6	2	3

b. 189 + 246

Ones: 9 + 6 = [15] ones. Write [5] ones, trade 10 ones for [1] ten.

Tens: 8 + 4 + [1] = [13] tens. Write [3] tens, trade 10 tens for [1] hundred.

Hundreds: 1 + 2 + [1] = [4] hundreds.

189 + 246 = 435

	H	T	O
	1	8	9
+	2	4	6
	1	1	
	4	3	5

Which Places Trade?

Answers in blue, with each new ten or hundred in its box.

10 Which places trade?

First tick the places that will trade. Then add.

248 + 136

Trades: ☑ ones ☐ tens ☐ none

H	T	O
	2	4	8
+	1	3	6
	☐	1	
	3	8	4

273 + 154

Trades: ☐ ones ☑ tens ☐ none

H	T	O
	2	7	3
+	1	5	4
	1	☐	
	4	2	7

386 + 247

Trades: ☑ ones ☑ tens ☐ none

H	T	O
	3	8	6
+	2	4	7
	1	1	
	6	3	3

214 + 123

Trades: ☐ ones ☐ tens ☑ none

H	T	O
	2	1	4
+	1	2	3
	☐	☐	
	3	3	7

395 + 207

Trades: ☑ ones ☑ tens ☐ none

H	T	O
	3	9	5
+	2	0	7
	1	1	
	6	0	2

405 + 95

Trades: ☑ ones ☑ tens ☐ none

H	T	O
	4	0	5
+		9	5
	1	1	
	5	0	0

Look closely: 395 + 207: 12 ones trade; then 9 + 0 + 1 = 10 tens trade, leaving 0 tens: 602. 405 + 95: 95 has no hundreds, so its 9 lines up under the 0 tens: 500.

11 Explain

In 268 + 157, the small 1 in the hundreds column is worth **100**, not 1. Why?

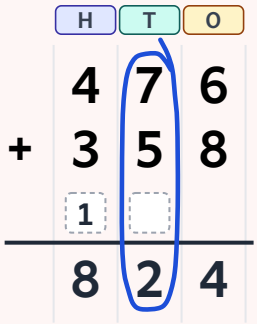
It is the 10 tens we traded: 10 tens = 1 hundred = 100.

Find and Fix

Answers in blue. Task 14 has many right answers.

12 Find Leo's mistake

Leo's work



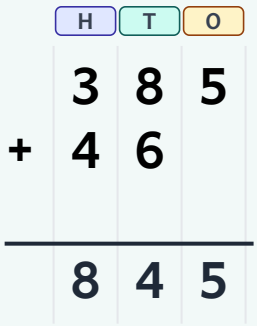
Circle the column where Leo made a mistake. What did he forget?

The tens. He forgot the new ten from 14 ones.

476 + 358 = 834

13 Find Ana's mistake

Ana's work



What went wrong? Add it the right way.

46 is lined up as if it were 460.



385 + 46 = 431

14 Make your own

Write two 3-digit numbers that need a trade in the ones **and** in the tens. Keep the sum less than 1,000. Add them.

568 + 275 = 843

Show your work.

One answer: 568 + 275 = 843 (8 + 5 = 13 ones; 6 + 7 + 1 = 14 tens). **Accept** any pair where the ones make 10 or more and the tens, with the new ten, make 10 or more, and the sum is under 1,000.

Two Trades in One Sum: teaching notes

GOAL

Students: I can add three-digit numbers that need two trades and explain each one. **Precisely:** compose a ten from ones and then a hundred from tens (including the incoming ten), recording each new unit in its place.

THINK BEFORE YOU ADD (TASKS 1–5)

Five ways to reason before adding: more or less than 400, a claim that only the ones trade (Lena), the answer that makes sense (each wrong one drops a trade), which hundreds, and a claim that 9 tens never trade (Theo: the new ten makes 10). Ask for reasons, not sums.

BEFORE THIS LESSON

One trade at a time, ones (B20) and tens (B21). **Quick check:** "247 + 126 and 273 + 154: which place trades in each?"

MATERIALS

Base-ten flats, rods and cubes; a place value mat. Drawings on the page use the same pieces: a flat is 10 rods, a rod is 10 cubes.

LAUNCH (TASKS 6–7)

Students decide which sum needs two trades *without adding*. In task 7, 356 + 172 trades only in the tens: a good trap for students who just look for big digits. Listen for "the 1 from the ones can push the tens over 9".

TEACH (TASK 8)

Build 268 and 157 on a mat. Join: 3 hundreds, 11 tens, 15 ones. Trade 10 ones for a ten *first* (the chart's "trade 1" row), then count the tens again: 12. Trade 10 tens for a hundred ("trade 2"). After each trade ask: *"Is it still the same amount?"* Then connect each step to the column: the small 1 in the tens column is the new ten; the one in the hundreds is the new hundred.

ABOUT THE SMALL 1S

The page writes each new unit just above the line in the place it moves to ("new groups below", recommended in the Common Core progression for place value: it keeps the teen total together, 1 and 5, and the 1 is added last). Many classes write it above the top number instead; both are correct if the 1 is in the right column and is added in.

Two Trades in One Sum: teaching notes (continued)

GUIDED AND PRACTICE (TASKS 9–10)

Task 9 walks two sums one place at a time. Task 10: six sums mixed on purpose: ones only (248 + 136), tens only (273 + 154), both, no trade, a zero in the tens (395 + 207: the incoming ten makes exactly 10 tens) and unequal lengths (405 + 95). Ticking the trades first makes students look at the numbers before computing.

MISCONCEPTIONS AND RESPONSES

- **Forgets the incoming ten** (476 + 358 = 824). Ask: "Where is the ten you made from 14 ones?" Have them point to it in the drawing.
- **Misaligns a two-digit number** (385 + 46 = 845). Ask what the 4 in 46 is worth, then line up ones under ones.
- **Writes 12 in one column** (3125 for 268 + 157 style answers). Return to the chart: "Can a place hold 12?"
- **Puts the 1 in the wrong column.** Ask what the 1 is: a ten or a hundred?

WHAT TO LOOK FOR

Secure: correct sums on the mixed set, correct ticks, and an explanation that names "10 tens = 1 hundred". Developing: correct sums but ticks wrong for 395 + 207 or 405 + 95. Needs support: forgets incoming units.

SUPPORT AND EXTENSION

Support: do task 10 with blocks; use only the first four sums (one of each trade pattern).
Extension: "Find two 3-digit numbers whose sum is exactly 1,000 where every column trades." (568 + 432; any pair whose ones add to 10 and other places to 9.)

STANDARDS

Set	Direct	Supporting
Common Core	2.NBT.B.7; 2.NBT.B.9 (task 11 and the error tasks); 3.NBT.A.2	
NC 2017 (current)	NC.2.NBT.7; NC.3.NBT.2	NC.2.NBT.1
NC 2026 (adopted; from 2028–29)	2.ANR.7.2; 2.ANR.7.3; 3.ANR.2.2; 3.ANR.2.3	
Florida B.E.S.T.	MA.2.NSO.2.4 (Grade 2 "explore"); MA.3.NSO.2.1	
Texas TEKS	3.4(A)	2.4(C) (Grade 2 works within 1,000 in problems)

Standards crosswalk, verified 2026-11-04 against corestandards.org, NC DPI (2017 SCOS; 2026 SCOS adopted Oct 1, 2026, in classrooms from 2028–29), FLDOE B.E.S.T. and TEA TEKS.