

Number Trade Shop

Build numbers in more than one way.

GRADE 2 • 2.NS.2.e

2.NS.2.e "Compose and decompose whole numbers up to 200 by making connections between a variety of models (e.g., base 10 blocks, place value cards, presented orally, in expanded or standard form) and counting strategies (e.g., 156 can be 1 hundred...)"

NAME _____

DATE _____

TRADE TENS AND HUNDREDS

A number can be made with hundreds, tens, and ones. You can trade 1 hundred for 10 tens, or trade 1 ten for 10 ones, and the number stays the same.

WORKED EXAMPLE

A toy bin has 172 blocks. Show the number with hundreds, tens, and ones.

1. $172 = 100 + 70 + 2$.
2. 100 is 1 hundred.
3. 70 is 7 tens, and 2 is 2 ones.

Answer: 1 hundred, 7 tens, 2 ones

PRACTICE 5 problems

- 1** A sticker book has 136 stickers. Write its value in expanded form.

ANSWER _____

- 2** A bead jar has 1 hundred, 8 tens, and 4 ones. What number is in the jar?

ANSWER _____

- 3** In a video game, Kai earns 195 points. Complete: 1 hundred, ____ tens, 15 ones.

ANSWER _____

- 4** A robot's place value cards show 100, 60, and 7. What number do the cards make?

ANSWER _____

- 5** Liam has 14 tens and 9 ones of marbles. What number of marbles does he have?

ANSWER _____

APPLY IT Show your work

- 1** Zoe has 126 seashells. She trades 1 ten for 10 ones. Complete: 1 hundred, 1 ten, ____ ones.

WORK SPACE

ANSWER _____

- 2** Noah has 153 prize tickets. He puts the tickets into groups of 10. He has 15 full groups and ____ tickets left.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A pet shelter has 198 cans of food. Sam says, "198 is 1 hundred, 8 tens, and 18 ones." Is Sam correct? Explain.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A sticker book has 136 stickers. Write its value in expanded form.	100 + 30 + 6
2	A bead jar has 1 hundred, 8 tens, and 4 ones. What number is in the jar?	184
3	In a video game, Kai earns 195 points. Complete: 1 hundred, ____ tens, 15 ones.	8
4	A robot's place value cards show 100, 60, and 7. What number do the cards make?	167
5	Liam has 14 tens and 9 ones of marbles. What number of marbles does he have?	149

PART 2 • APPLY IT

1. **16** 126 is 1 hundred, 2 tens, and 6 ones. Trading 1 ten makes 1 hundred, 1 ten, and 16 ones.
2. **3** 15 groups of 10 equal 150 tickets. 153 has 3 tickets left over.

CHALLENGE

Yes. 1 hundred is 100, 8 tens is 80, and 18 ones is 18. $100 + 80 + 18 = 198$.

Accept equivalent hundreds, tens, and ones forms when they total the named number. For explanations, accept a clear statement that trading a ten for 10 ones keeps the total the same.