LESSON MAKER PRO

Tens and Ones

Add two-digit numbers and tell why your way works.

GRADE 2 · 2.NBT.9

2.NBT.9 "Explain why addition and subtraction strategies work, using place value and the 3 properties of operations."

NAME _____ DATE _____

THE BIG IDEA

Add tens to tens and ones to ones. If you have 10 or more ones, trade 10 ones for 1 ten.

WORKED EXAMPLE

You have 26 stickers and get 17 more. How many stickers do you have?

1. 6 ones + 7 ones = 13 ones.
2. Trade 10 ones for 1 ten. Now 3 ones remain.
3. 2 tens + 1 ten + 1 new ten = 4 tens.

Answer: 43 stickers

PRACTICE 5 problems

1 A box has 42 crayons. You add 16 crayons. How many crayons are in the box? Tell how tens and ones help.

ANSWER _____

2 A shelf has 35 toy cars. You put 22 more on it. How many toy cars are on the shelf? Tell how tens and ones help.

ANSWER _____

3 You have 47 beads and get 15 more. How many beads do you have? Tell how tens and ones help.

ANSWER _____

4 A jar has 58 marbles. You add 13 marbles. How many marbles are in the jar? Tell how tens and ones help.

ANSWER _____

5 You have 64 blocks and get 19 more. How many blocks do you have? Tell how tens and ones help.

ANSWER _____

APPLY IT Show your work

1 A class has 28 paper stars. The students make 37 more. How many paper stars do they have now? Tell why your way works.

WORK SPACE

ANSWER _____

2 A pet shop has 46 fish. It gets 25 more fish. How many fish does it have now? Tell why your way works.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Sam says 39 + 27 = 516 because 3 + 2 = 5 and 9 + 7 = 16. What is the correct sum? Explain Sam's mistake using tens and ones.

WORK SPACE AND ANSWER

ANSWER KEY

Tens and Ones

GRADE 2 · 2.NBT.9

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A box has 42 crayons. You add 16 crayons. How many crayons are in the box? Tell how tens and ones help.	**58 crayons. 4 tens + 1 ten = 5 tens, and 2 ones + 6 ones = 8 ones.**
2	A shelf has 35 toy cars. You put 22 more on it. How many toy cars are on the shelf? Tell how tens and ones help.	**57 toy cars. 3 tens + 2 tens = 5 tens, and 5 ones + 2 ones = 7 ones.**
3	You have 47 beads and get 15 more. How many beads do you have? Tell how tens and ones help.	**62 beads. 7 ones + 5 ones = 12 ones, so I trade 10 ones for 1 ten. That makes 6 tens and 2 ones.**
4	A jar has 58 marbles. You add 13 marbles. How many marbles are in the jar? Tell how tens and ones help.	**71 marbles. 8 ones + 3 ones = 11 ones, so I trade 10 ones for 1 ten. That makes 7 tens and 1 one.**
5	You have 64 blocks and get 19 more. How many blocks do you have? Tell how tens and ones help.	**83 blocks. 4 ones + 9 ones = 13 ones, so I trade 10 ones for 1 ten. That makes 8 tens and 3 ones.**

PART 2 · APPLY IT

1. **65 paper stars. 8 ones + 7 ones = 15 ones. I trade 10 ones for 1 ten, making 6 tens and 5 ones.** Add the ones and trade 10 of the 15 ones for 1 ten. Then add the tens to get 65.
2. **71 fish. 6 ones + 5 ones = 11 ones. I trade 10 ones for 1 ten, making 7 tens and 1 one.** Add the ones and trade 10 of the 11 ones for 1 ten. Then add the tens to get 71.

CHALLENGE

66. Sam got 5 tens and 16 ones, but 16 ones is 1 ten and 6 ones. That makes 6 tens and 6 ones, not 516.

Accept other correct place-value explanations, including ones that add tens first and then ones. For the challenge, the explanation must show that 10 of the 16 ones become 1 ten.