

QUESTIONS TO SUPPORT THE FOLLOWING STANDARD:

NBT.C.4 Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.

NBT.C. 5 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.

(created by AI)

1. Add a Two-Digit Number and a One-Digit Number

- $34 + 5 = ?$
- $47 + 8 = ?$
- $59 + 3 = ?$
- $62 + 7 = ?$
- $85 + 4 = ?$

Possible questions to ask:

How did you add the ones?

Tina says that she needs to regroup the ones to make a ten. Which questions is she talking about?

2. Add a Two-Digit Number and a Multiple of 10

- $34 + 20 = ?$
- $57 + 30 = ?$
- $43 + 50 = ?$
- $65 + 40 = ?$
- $21 + 30 = ?$

Possible questions to ask:

What happens to the ones when you add by tens?

What strategy did you use to add the tens?

3. Add Two Two-Digit Numbers (Tens and Tens, Ones and Ones)

- $34 + 45 = ?$
- $52 + 27 = ?$
- $63 + 15 = ?$
- $41 + 36 = ?$
- $24 + 59 = ?$

Possible questions to ask:

What is your first step going to be for adding these numbers together?

How did you add the numbers?

William says there is one example where he had to regroup the ones to make a ten. Do you agree? Show your thinking.

4. Compose a Ten (When Ones Exceed 9)

- $46 + 8 = ?$
- $57 + 9 = ?$
- $38 + 7 = ?$
- $64 + 9 = ?$
- $79 + 6 = ?$

Possible questions to ask:

What does it mean to make a ten? How do I do this with ones?

Jaya adds $57 + 9$ by first changing it to $57 + 10$. What would you do next?
How would you finish Jaya's thinking?

5. Use Place Value Strategy for Addition

- $23 + 46 = ?$
- $39 + 27 = ?$
- $51 + 18 = ?$
- $68 + 32 = ?$

- $14 + 67 = ?$

Possible questions:

Jaya adds $51 + 18$ by first changing it to $51 + 20$. What would you do next?
How would you finish Jaya's thinking?

What strategy did you use?

Share your strategy with another student. What is the same? What is different?