Reasoning and Problem Solving
Step 14: Subtract with 2-Digits 2

National Curriculum Objectives:

Mathematics Year 2: (2C2b) Add and subtract numbers using concrete objects and pictorial representations, including: two two-digit numbers
Mathematics Year 2: (2C4) Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods

Differentiation:

Questions 1, 4 and 7 (Reasoning)
Developing Identify the mistake in a subtraction with two 2-digit numbers that involves one exchange. All 2-digit numbers are presented using Base 10 within a place value chart.
Expected Identify the mistake in a subtraction with two 2-digit numbers that involves one exchange. Includes place value counters within a place value chart.
Greater Depth Identify the mistake in a subtraction with two 2-digit numbers that involves one exchange. Includes questions presented in column format. Numerals and words used.

Questions 2, 5 and 8 (Problem Solving)
Developing Arrange the given digit cards to create a 2-digit subtraction that includes one exchange. All digit cards are presented using Base 10. Calculation presented in a place value chart.
Expected Arrange the given digit cards to create a 2-digit subtraction that includes one exchange. Calculation presented in column format.
Greater Depth Arrange the given digit cards to create a 2-digit subtraction that includes one exchange. Calculation presented in a linear format.

Questions 3, 6 and 9 (Reasoning)
Developing Explain which answer to a subtraction with two 2-digit numbers is correct. Each calculation involves one exchange. All numbers are presented using Base 10 within a place value chart.
Expected Explain which answer to a subtraction with two 2-digit numbers is correct. Each calculation involves one exchange. Includes place value counters within a place value chart.
Greater Depth Explain which answer to a subtraction with two 2-digit numbers is correct. Each calculation involves one exchange. Questions presented in a linear format. Numerals and words used.

More Year 2 Addition and Subtraction resources.

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Subtract with 2-Digits 2

Subtract with 2-Digits 2

1a. Adam has calculated 85 – 28. His calculation is below.
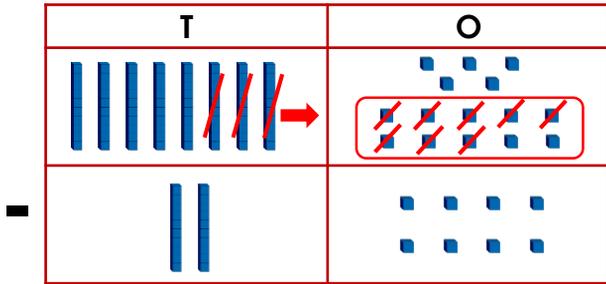
55

What mistake has he made?

⭐D

R

1b. Liz has calculated 73 – 47. Her calculation is below.
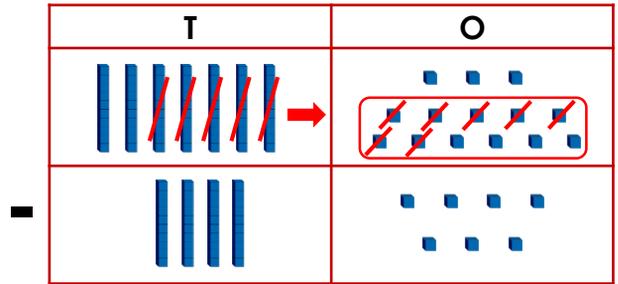

**27**

What mistake has she made?

⭐D

R

2a. Using the digit cards below, create a 2-digit subtraction that includes an exchange.


⭐D
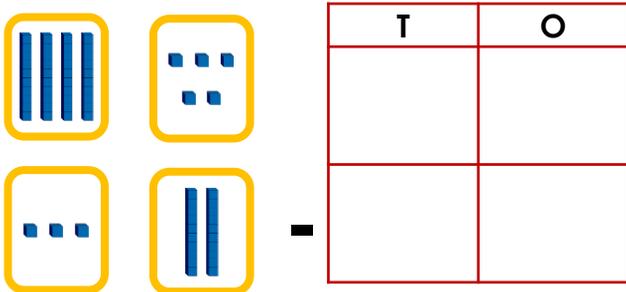
PS

2b. Using the digit cards below, create a 2-digit subtraction that includes an exchange.

⭐D
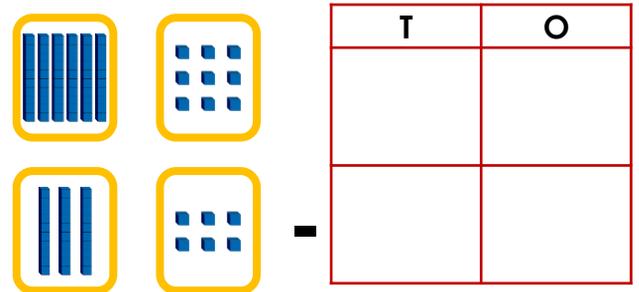
PS

3a. Phil and Jess are solving 95 – 27.
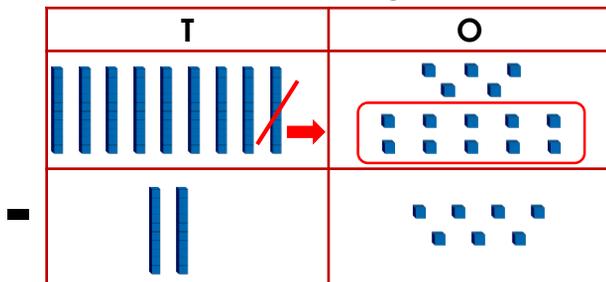
**Phil:** The answer is 58.

Jess: The answer is 68.

Who is correct? Explain how you know.

⭐D

R

3b. Amy and Tom are solving 53 – 36.
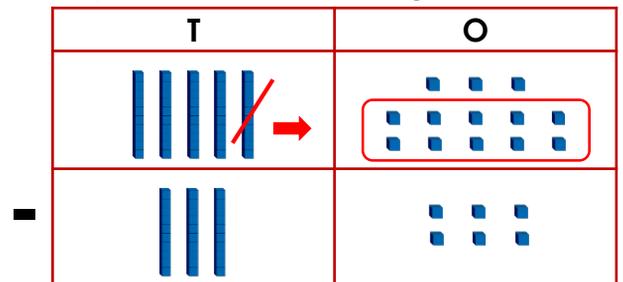
Amy: The answer is 23.

Tom: The answer is 17.

Who is correct? Explain how you know.

⭐D

R

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4a. Aaron has calculated 65 – 19. His calculation is below.

T	O
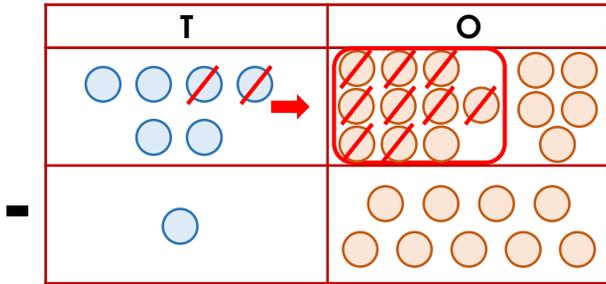
47

What mistake has he made?

☆ E

R

**4b.** Jill has calculated 42 – 26 . Her calculation is below.

T	O
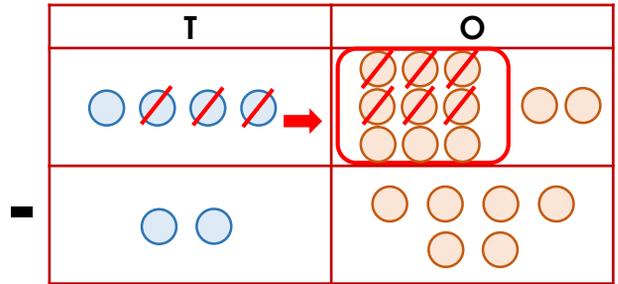
15

What mistake has she made?

☆ E

R

5a. Using the digit cards below, create 3 different 2-digit subtraction that includes an exchange.

3 **2**

8 **5**

☆ E
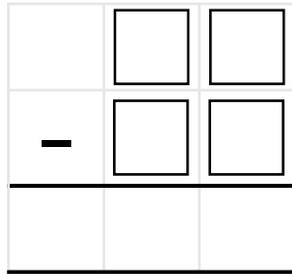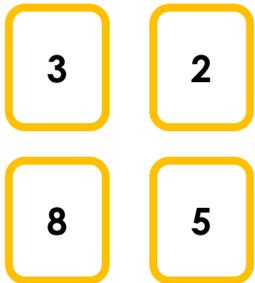
PS

5b. Using the digit cards below, create 3 different 2-digit subtraction that includes an exchange.

9 **4**

7 **6**

☆ E
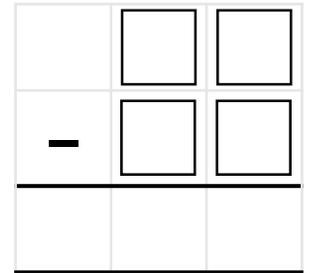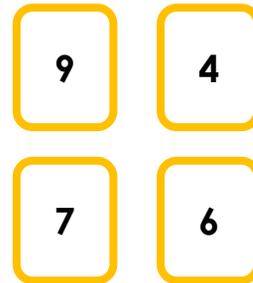
PS

6a. Gary and Molly are solving 75 – 28.
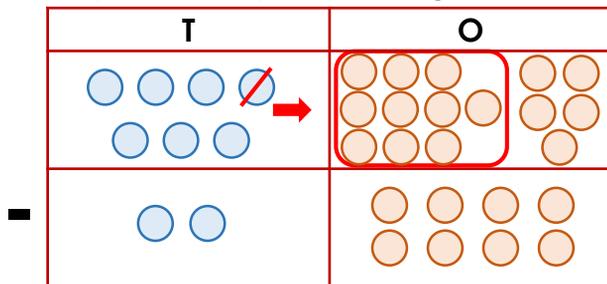
T	O

Gary: The answer is 47.

Molly: The answer is 50.

Who is correct? Explain how you know.

☆ E

R

6b. Sara and Fred are solving 61 – 39.

T	O

Sara: The answer is 22.

Fred: The answer is 23.

Who is correct? Explain how you know.

☆ E

R

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Reasoning and Problem Solving – Subtract with 2-Digits 2 – Year 2 Expected

7a. John has calculated fifty-three subtract twenty-five. His calculation is below.

	⁴5̸	¹3
−	2	5
	2	7

What mistake has he made?

R

7b. Sam has calculated seventy subtract forty-eight. Her calculation is below.

	7	0
−	4	8
	3	2

What mistake has she made?

R

**8a.** Using the digit cards below, create 3 different 2-digit subtraction that includes an exchange.

☐☐ – ☐☐ = ?

9   3

2   7
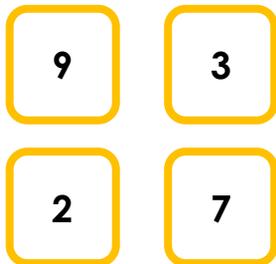
PS

8b. Using the digit cards below, create 3 different 2-digit subtraction that includes an exchange.

☐☐ – ☐☐ = ?

1   6

5   8
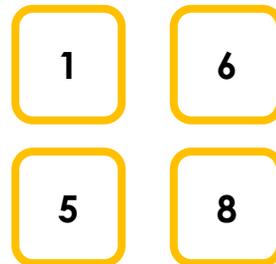
PS

9a. Matt and Pip are solving:

ninety-six – thirty-nine =

Matt: The answer is 57.

Pip: The answer is 67.

Who is correct? Explain how you know.

R

9b. Ted and Aisha are solving:

eighty-three – fifty-seven =

Ted: The answer is 25.

Aisha: The answer is 26.

Who is correct? Explain how you know.

R

Reasoning and Problem Solving – Subtract with 2-Digits 2 – Year 2 Greater Depth

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Developing

1a. Adam has correctly exchanged 1 ten for 10 ones but he hasn't included the remaining ones left over from the exchange in his answer. The answer should be 57, not 55.

2a. 43 – 25 = 18

3a. Jess is correct because she has accurately counted the remaining tens and ones. Phil has miscounted the tens.

Expected

4a. Aaron has correctly exchanged one ten for ten ones but he has incorrectly counted the remaining ones. The answer should be 46, not 47.

5a. Various answers, for example:
82 – 35 = 47, 35 – 28 = 7 and 52 – 38 = 14

6a. Gary is correct because he accurately exchanged 1 ten for ten ones, unlike Molly.

Greater Depth

7a. John has incorrectly subtracted 5 from 13 in the ones column. The answer should be 28, not 27.

8a. Various possible answers, for example:
93 – 27 = 66, 92 – 37 = 55 and 72 – 39 = 33

9a. Matt is correct because he has correctly exchanged 1 ten for 10 ones whereas Pip has not so she too many tens in her answer.

Developing

1b. Liz has incorrectly exchanged 1 ten for 11 ones so her answer is inaccurate. The answer should be 26, not 27.

2b. 66 – 39 = 27

3b. Tom is correct because he has accurately exchanged 1 ten for tens ones to subtract 53 from 36 whereas Amy has incorrectly swapped the ones around and subtracted 33 from 56.

Expected

4b. Jill has incorrectly exchanged 1 ten for 9 ones so she is 1 one short. Her answer should be 16, not 15.

5b. Various answers, for example:
94 – 76 = 18, 94 – 67 = 27 and 74 – 69 = 5

6b. Sara is correct because she has accurately counted the remaining ones whereas Fred has miscounted.

Greater Depth

7b. Sam has incorrectly subtracted 8 from 0 in the ones column. Sam should have exchanged 1 ten for 10 ones as 8 cannot be subtracted from 0. The answer should be 22, not 32.

8b. Various possible answers, for example:
81 – 65 = 16, 85 – 16 = 69 and 56 – 18 = 38

9b. Aisha is correct as she has correctly exchanged 1 ten for 10 ones so she has correctly subtracted 7 ones from 13 ones to leave her with 2 tens and 6 ones – 26.

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Reasoning and Problem Solving – Subtract with 2-Digits 2 **ANSWERS**