

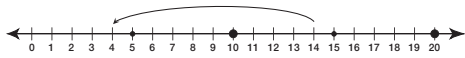
Workshop: Reasoning from Known Facts

Use the following Self-Check questions to check your progress with using strategies to subtract.

Self-Check: Questions 1-4

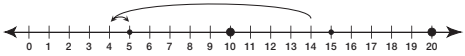
When Rosa uses a number line for subtraction problems, she often thinks of tens.

1. Here is her solution for solving $14 - 10$.



- A. How did she know to stop at 4?
 B. Complete the following number sentence: $14 - \square = 4$

2. Here is Rosa's solution for solving $14 - 9$.



- A. Explain Rosa's steps. What is the answer?
 B. Complete the following number sentence that shows Rosa's strategy. $14 - 9 = 14 - 10 + \square$

3. A. Use Rosa's strategy to solve $14 - 8$. Explain your steps.
 B. Complete the number sentence that shows this strategy.
 $14 - 8 = 14 - 10 + \square$

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Questions 1–6

- A. Possible answers: She reasoned from the addition fact $4 + 10 = 14$. She knew that when she subtracts 10, the ones digit stays the same.

B. $14 - \boxed{10} = 4$
- A. Rosa took away 10 and then added 1 because 10 is one more than 9. Five is the answer.

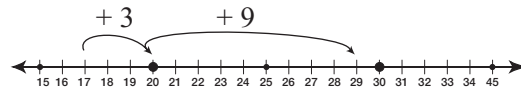
B. $*14 - 9 = 14 - 10 + \boxed{1}$
- A. *Take 10 from 14 to get 4. Add 2 because 8 is equal to $10 - 2$.

B. $*14 - 8 = 14 - 10 + \boxed{2}$
- A. *Move 1 forward to 15.

B. $*24 - 10 + \boxed{1} = 15$
- $7 + \boxed{3 + 5} = 15$, since $5 + 3 = 8$, $15 - 7 = 8$
- 12; I used thinking addition

$$\underbrace{17 + (3 + 9)}_{20} = 29$$

So $29 - 17 = 3 + 9$, or 12



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4. Rosa started using this strategy to solve $24 - 9$.



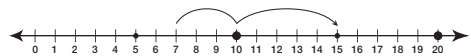
- A. What should she do to finish?
 B. Complete the number sentence that shows this strategy.
 $24 - 9 = 24 - 10 + \square = 15$

Use the *Reasoning From Known Facts Workshop Menu* in the *Student Activity Book* to choose practice problems. Choose problems from the first row of the menu.

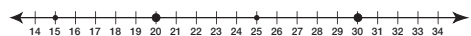
Self-Check: Questions 5-6

When Mark uses a number line for subtraction problems, he often thinks of addition.

5. Mark solved $15 - 7$ on the number line. Write a number sentence that shows Mark's strategy and his solution.



6. Solve $29 - 17$ using Mark's strategy. Show or tell your strategy.



Use the *Reasoning From Known Facts Workshop Menu* in the *Student Activity Book* to choose practice problems. Choose problems from the second row of the menu.

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*Answers and/or discussion are included in the lesson.

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