1. Solve the following problems.

   $5 + 5 = \underline{\quad 10 \quad}$ $3 + 3 = \underline{\quad 6 \quad}$ $8 + 8 = \underline{\quad 16 \quad}$

   $6 + 6 = \underline{\quad 12 \quad}$ $1 + 1 = \underline{\quad 2 \quad}$ $4 + 4 = \underline{\quad 8 \quad}$

   $9 + 9 = \underline{\quad 18 \quad}$ $7 + 7 = \underline{\quad 14 \quad}$ $2 + 2 = \underline{\quad 4 \quad}$
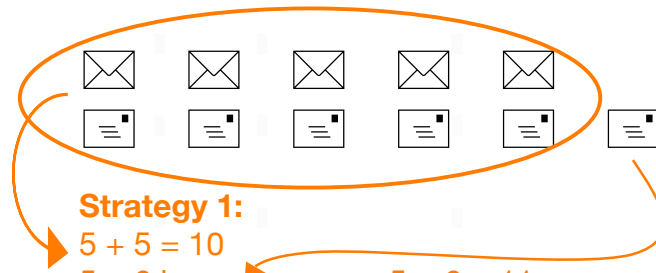
2. How are the above problems alike?

   All of the problems are addition doubles. The two addends are the same.

Explain how you can use doubles to find each answer.

3. Mia wrote 5 letters while away at camp. Her brother wrote 6 letters. How many stamps did Mia and her brother use to send the letters?

   To solve this problem, add 5 and 6.

   Strategy 1:
   $5 + 5 = 10$
   $5 + 6$ is one more, so $5 + 6 = 11$.

   Strategy 2:
   $6 + 6 = 12$
   $5 + 6$ is one less, so $5 + 6 = 11$.

4. Leo found 4 pens and 5 pencils in his backpack. How many is that altogether?

   To solve this problem, add 4 and 5.

   Strategy 1:
   $4 + 4 = 8$
   $4 + 5$ is one more, so $4 + 5 = 9$.

   Strategy 2:
   $5 + 5 = 10$
   $4 + 5$ is one less, so $4 + 5 = 9$.

5. Shay saw 7 spiders on the sidewalk outside her apartment house and 6 spiders on the grass. How many spiders did she see?

   To solve this problem, add 7 and 6.

   Strategy 1:
   $6 + 6 = 12$
   $7 + 6$ is one more, so $7 + 6 = 13$.

   Strategy 2:
   $7 + 7 = 14$
   $7 + 6$ is one less, so $7 + 6 = 13$.

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PROBLEM SOLVED
MAKING SENSE OF MATHEMATICS

6. All the fourth and fifth grade students at Washington Elementary competed in the Junior Track and Field Day. The fourth grade class won 8 medals and the fifth grade class won 7 medals. How many medals did the students at Washington Elementary win?

    To solve this problem, add 8 and 7.

    Strategy 1:
    8 + 8 = 16
    8 + 7 is one less, so 8 + 7 = 15.

    Strategy 2:
    7 + 7 = 14
    8 + 7 is one more, so 8 + 7 = 15.

7. **5 + 5 = 10** List all the pairs of whole numbers with a sum of ten.
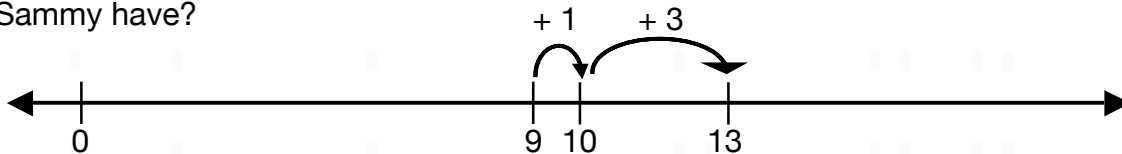   1 + 9 = 10   3 + 7 = 10
    2 + 8 = 10   4 + 6 = 10

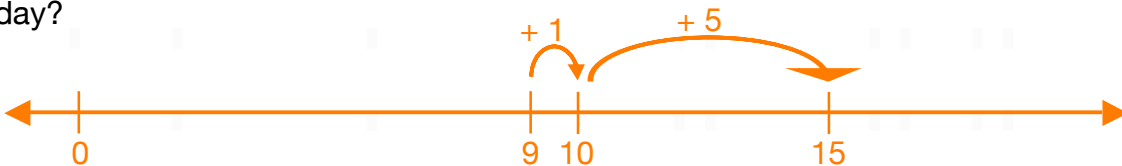   You may also reverse the order of the addends.

Explain how you can use ten to find each answer. You may want to sketch a number line to help show your thinking. The first problem is done for you.

8. Dora has 9 cousins. Sammy has 4 more cousins than Dora. How many cousins does Sammy have?

    + 1   + 3

    0   9 10   13

    To solve this problem, add 9 + 4.   9 + 1 = 10, 10 + 3 = 13   Sammy has 13 cousins.

9. Manuel likes to walk his neighbor's dog. One morning, he and the dog walked 9 blocks and that evening they walked 6 blocks. How many blocks did Manuel walk the dog that day?
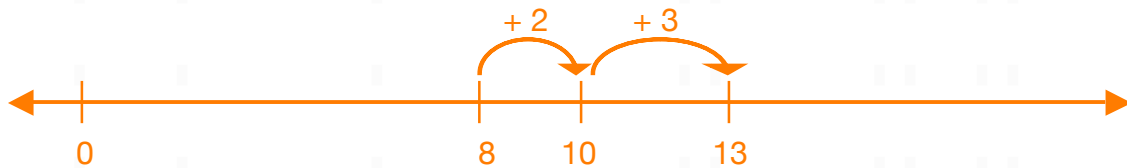
    + 1   + 5

    0   9 10   15

    To solve this problem, add 9 + 6.
    9 + 1 = 10, 10 + 5 = 15
    Manuel walked the dog 15 blocks.

MakingSense

10. Lucia invited 8 girls to her birthday party. When her sister had a party, she invited 5 more guests than Lucia invited to her party. How many guests did Lucia's sister invite?
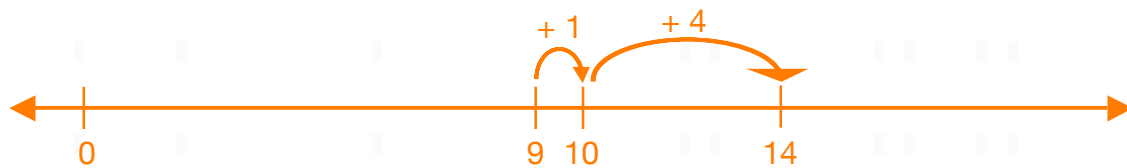

To solve this problem, add 8 + 5.
8 + 2 = 10, 10 + 3 = 13
Lucia's sister invited 13 guests.

11. Five students in Belle's class rode their bikes to school on Monday and nine students rode the bus. The rest of the students in Belle's class walked to school. How many students in Belle's class did not walk to school on Monday?
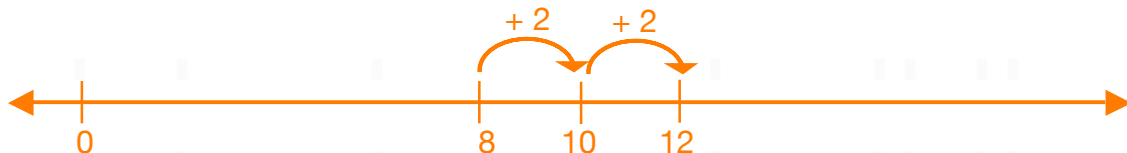

To solve this problem, add 5 + 9. That is the same answer as 9 + 5.
9 + 1 = 10, 10 + 4 = 14
Fourteen students in Belle's class walked to school on Monday.

12. Lynn and Lance picked flowers for their grandma. Lynn picked 4 red flowers and Lance picked 8 yellow flowers. How many flowers did they give their grandma?

To solve this problem, add 4 + 8. That is the same answer as 8 + 4.
8 + 2 = 10, 10 + 2 = 12
Fourteen students in Belle's class walked to school on Monday.

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