How do you add 8 + 9 by using doubles?

8 + 9 can be rewritten as (8 + 8) + 1.

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In this lesson you will learn how to add and subtract within 20 by using doubles.

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Let's Review

Doubles Facts

1 + 1 = 2

2 + 2 = 4

3 + 3 = 6

4 + 4 = 8

5 + 5 = 10

6 + 6 = 12

7 + 7 = 14

8 + 8 = 16

9 + 9 = 18

10 + 10 = 20

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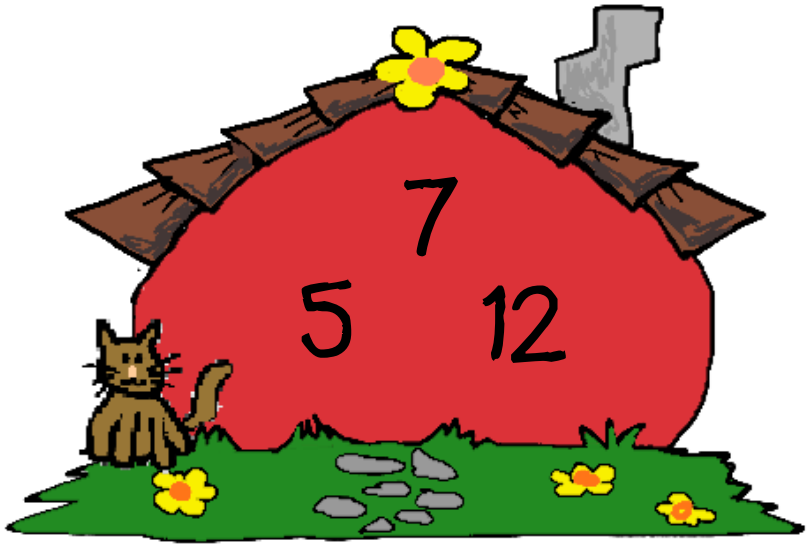
Let's Review

Fact Families



7 + 5 = 12
5 + 7 = 12
12 − 7 = 5
12 − 5 = 7

Addition and subtraction are related.

Each fact family has 2 addition facts and 2 subtraction facts.

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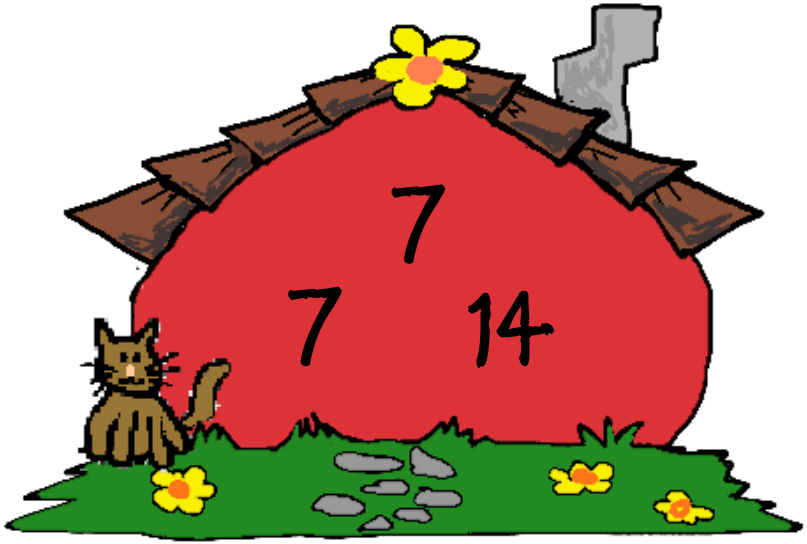
Let's Review

Doubles Fact Families

Doubles fact families only have 1 addition fact and 1 subtraction fact.

$7 + 7 = 14$

$14 - 7 = 7$



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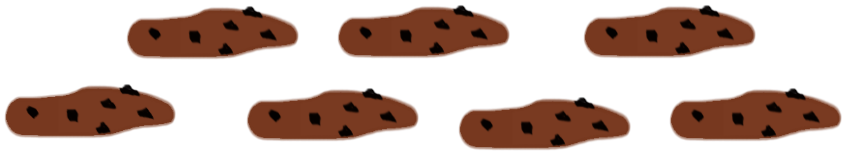
Let's Review

Addends can be grouped in any order to get the same sum.

$(2 + 2) + 3 = (3 + 2) + 2$



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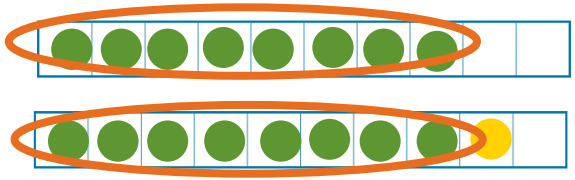
Core Lesson

Add 8 + 9 = 17

Using the facts that I already know makes adding and subtracting easier.



(8 + 8) + 1

I know that 8 + 8 = 16. 9 is only 1 more than 8.

16 + 1 = 17

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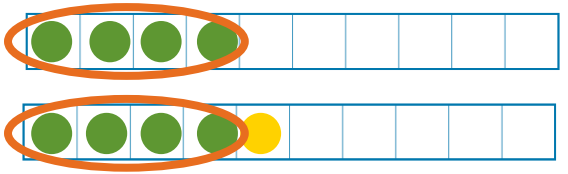
A Common Misunderstanding

Forgetting to double the smaller number when using doubles plus 1.

Add 5 + 4 using doubles.



$(4 + 4) + 1 = 9$

$(5 + \ldots 1 = 11$

$5 + 4 = 9$

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Core Lesson

Add 8 + 6.

Can I use doubles even if I need to add more than 1?

You can use doubles plus 2!

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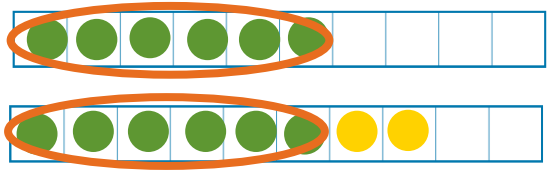
Core Lesson

Add 8 + 6 = 14

I know that 6 + 6 = 12.



(6 + 6) + 2

8 is 2 more than 6.

12 + 2 = 14

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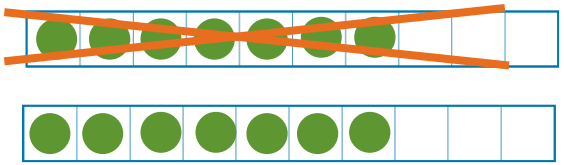
Core Lesson

Subtract 14 - 7.

I can think about addition when I subtract!

I know that 7 + 7 = 14.



14 - 7 = 7

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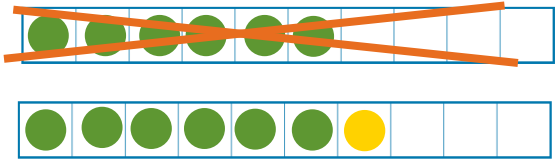
Core Lesson

Subtract 13 − 6.

Thinking about the doubles facts can help me solve the problem.

13 is 1 more than 12, so (6 + 6) + 1 = 13.

I know that 6 + 6 = 12.



13 − 6 = 7

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In this lesson you have learned how to add and subtract within 20 by using doubles.

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