

Add and subtract within 20 - Guided Lesson Explanation:**Explanation to #1**

There are many ways to answer these problems. When you are asked a problem that involves addition, you just need to realize that the numbers need to be much smaller than the numbers that the sum needs to be.

a) add 3 numbers to make 10

Start with two numbers much smaller than 10. Then find out how much you need to reach 10. We chose 5 and 3.

$$5 + 3 + 2 = 10$$

b) add 5 numbers to make 10

Use the same strategy as above.

$$2 + 2 + 2 + 2 + 2 = 10$$

c) Subtract 3 number and make 10

When you are subtracting numbers you need to use a number much larger than the number given. In this case we chose 15.

$$15 - 3 - 2 = 10$$

Explanation to #2

a) Add 2 numbers to make 15. Choose a number smaller than 15 and go from there. We chose 10.

$$10 + 5 = 15$$

b) Subtract 2 numbers to make 15. Choose a number larger than 15 and go from there. We start with 20.

$$20 - 5 = 15$$

c) Subtract 3 numbers to make 15. Now you need a very large number because you need to subtract twice. How about 20?

$$20 - 3 - 2 = 15$$



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Explanation to #3

a) Add 2 numbers to make 8. Choose any number less than eight. I chose 4. I needed another 4 to get to 8.

$$4 + 4 = 8$$

b) Add 4 numbers to make 8. This is a bit tougher because there are a number of ways to do it, especially when we think about zeros. I chose 2, then I got happy with the 2s. You can do it other ways too.

$$2 + 2 + 2 + 2 = 8$$

c) Subtract 2 numbers to make 8. You could choose any number greater than 10. And subtract a number 8 less than it. Why reinvent the wheel? I'll start with 10. If I subtract 2, we get 8.

$$10 - 2 = 8$$

