Math Strategies
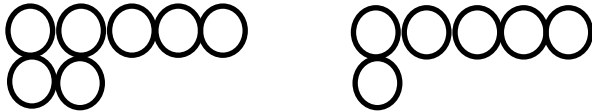
Make a Ten:

7 + 6 = ☐
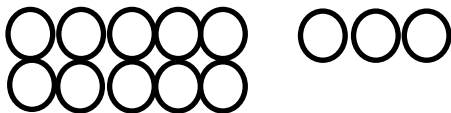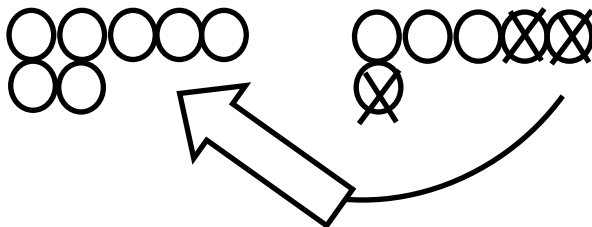
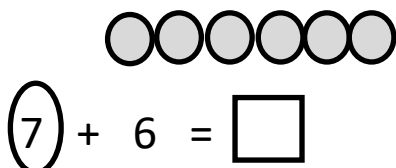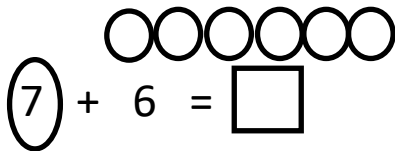Draw circles for each number in the equation.

Decide if you can make a ten by borrowing circles from another number.

Cross off the number of circles you need to make a ten. Move those circles so that you can make a ten.

Now you can quickly add the numbers because you are starting with a ten.

10 + 3 = 13

_____

Count On:

7 + 6 = ☐

⑦ + 6 = ☐

⑦ + 6 = ☐

Look at your equation. Decide which number is bigger.

Circle the bigger number.

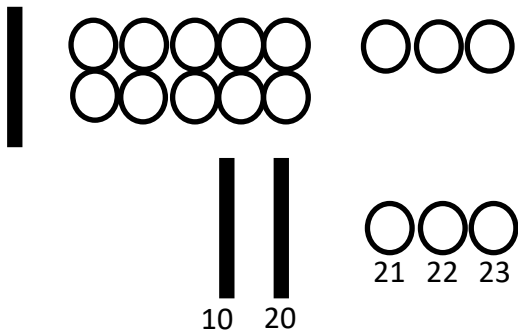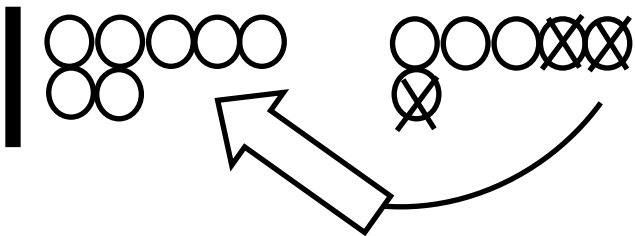Look at the second number and draw that many circles above it.

Put the bigger number in your head and start counting on from that number. Color each circle in as you count on, so that you know when to stop counting on.

In your head you count and color in the circles 7…… 8, 9, 10, 11, 12, 13

Math Strategies

Adding with Ten Sticks and Ones:

17 + 6 = ☐
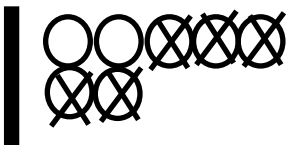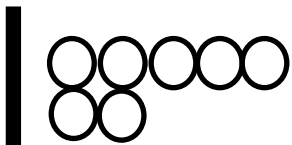
Draw ten sticks and ones for each number in the equation.

Decide if you can make a new ten by borrowing circles from another number.

Cross of the number of circles you need to make a ten. Move those circles so that you can make a ten.

Now turn your 10 ones into another ten stick. Count all of your ten sticks and ones and you will get your answer.

_____

Subtracting with Ten Sticks and Ones:

17 - 6 = ☐

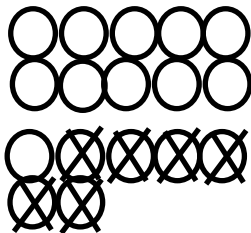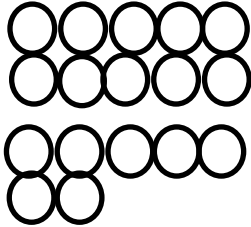Draw ten sticks and ones for the bigger number.

Look at your equation to determine how many you need to take away. Cross off the number of circles you need to take away.

Now count what you have left and that will be your answer.

Math Strategies

Subtracting with a picture:

17 - 6 = ☐

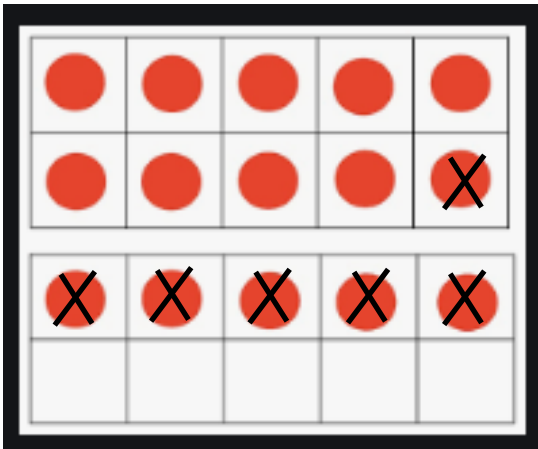Look at your equation. Since it is subtracting, you must locate the bigger number and draw that many circles.

Since the equation says take away a number, cross off the number of circles it states.

Count your remaining circles to get your answer.

10 left

1 left   = 10 left plus 1 left equals 11 left

There are 11 total circles left so the answer is 11.

_____

Subtracting with Tens Frame:

15 - 6 = ☐

Look at your equation. Since it is subtracting, you must locate the bigger number and draw that many circles.

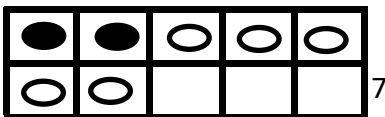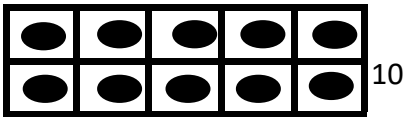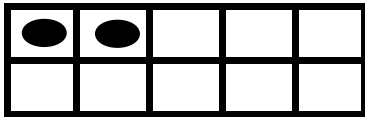Since the equation says take away a number, cross off the number of circles it states.
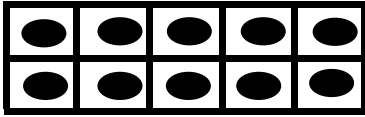
Count your remaining circles.

There are 9 circles left so the answer is 9.

Math Strategies

Adding with a tens frame:

12 + 5 = ☐

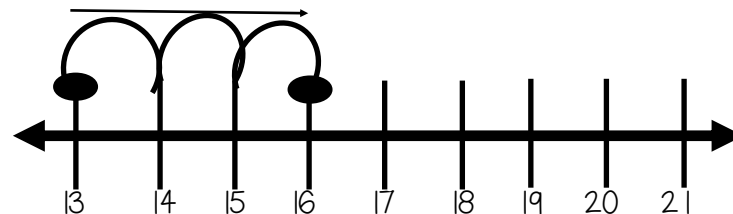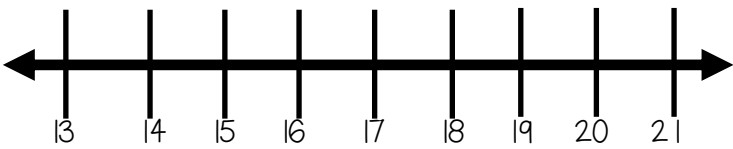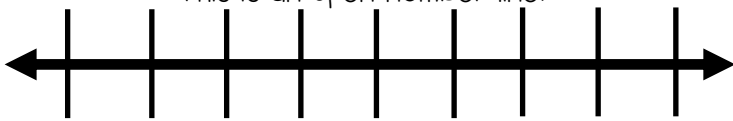Look at your equation. Decide which number is bigger.

Draw that number of circles first.

Look at the second number and add that many circles to your tens frame.

Count all of the circles to find your total.

10

7   10 plus 7 equals 17

There are 17 circles now.

_____

Adding with the Number Line:

13 + 3 = ☐

This is an open number line.

Draw an open number line.

Add your numbers on the bottom of the number line. Be sure to start on the left side of the number line with the bigger number in the equation.

13 14 15 16 17 18 19 20 21

Put a circle on the number line showing where you start. Jump to the right on the number line until you have moved the correct number you added.
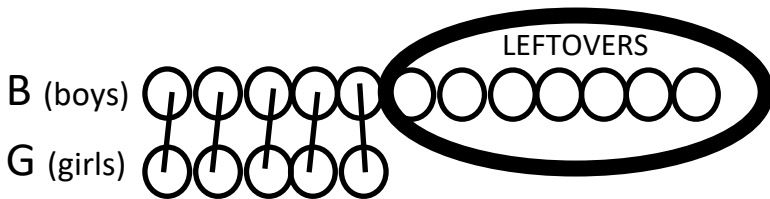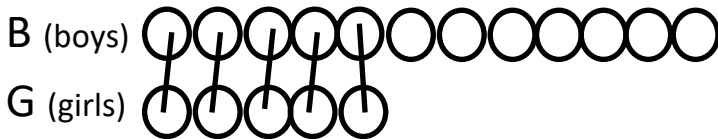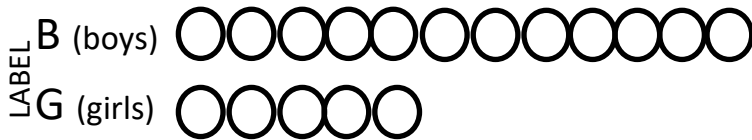
The number that you end on will be your answer.

13 14 15 16 17 18 19 20 21

Math Strategies

Comparison Strategy:

There were 12 boys in our class and 5 girls in our class. How many **more** boys are in our class than girls?

$$12 - 5 = \boxed{}$$

LABEL

B (boys) ⭕⭕⭕⭕⭕⭕⭕⭕⭕⭕⭕⭕
G (girls) ⭕⭕⭕⭕⭕

Look at your word problem. When you notice that the word fewer or more in the question, immediately know that you need to do the comparison strategy.

Decide what you are comparing and write a abbreviation/label on your paper.

B (boys) ⭕⭕⭕⭕⭕⭕⭕⭕⭕⭕⭕⭕
G (girls) ⭕⭕⭕⭕⭕

Look back at your problem to see how many circles to draw for each label that you are comparing.

Connect the circles that match up in the numbers you are comparing.

LEFTOVERS

B (boys) ⭕⭕⭕⭕⭕⭕⭕⭕⭕⭕⭕⭕
G (girls) ⭕⭕⭕⭕⭕

Circle your leftovers and you will find your answer by counting your leftovers.

_____

Subtracting with the Number Line:
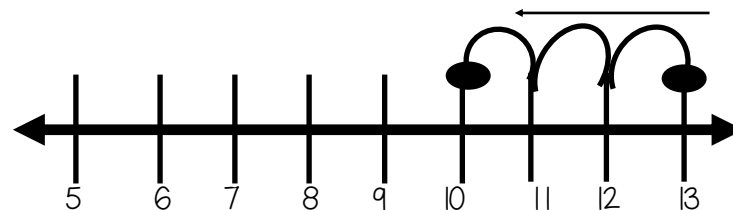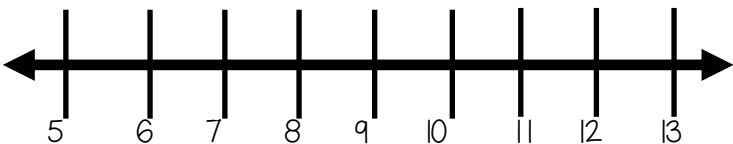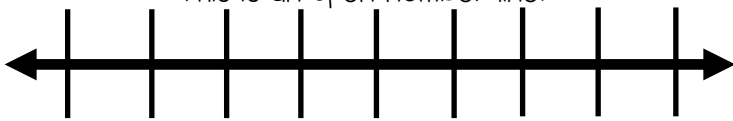
$$13 - 3 = \boxed{}$$

This is an open number line.

Draw an open number line.

Add your numbers on the bottom of the number line. Be sure to start on the right side of the number line with the bigger number in the equation and count backwards.

5 6 7 8 9 10 11 12 13

Put a circle on the number line showing where you start. Jump to the left on the number line until you have moved the correct number you subtracted.

5 6 7 8 9 10 11 12 13

The number that you end on will be your answer.