Add and Subtract within 20 - Guided Lesson Explanation

Explanation to #1

Step 1) First add the numbers across and write the number in 3rd box.

Left Box) 2+ 6 = 8 and 5 + 4 = 9

Right Box) 3 + 4 = 7 and 2 + 5 = 7

Step 2) Then add both the numbers down and write the number in 3rd box.

Left Box) 2 + 5 = 7 and   6 + 4 = 10
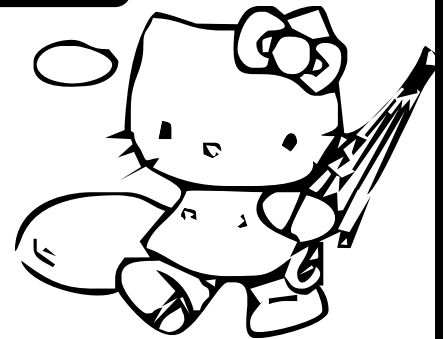
Right Box) 3 + 2 = 5 and 4 + 5 = 9

Step 3) To finish it up, we add the third row and column numbers to find the lower right box value. These calculations should be the same.

Left Box) 7 + 10 = 17   and   8 + 9 = 17

Right Box) 5 + 9 = 14   and 7 + 7 = 14

2	6	8
5	4	9
7	10	17

3	4	7
2	5	7
5	9	14

Explanation to #2

 Step 1) We follow the same strategy, but we subtract the first number by the second number. Subtract the numbers across. Write the number in 3rd box of that column.

Left Box) 14 – 10 = 4   and 4 -1 = 3

Right Box) 19 – 15 = 4   and 4 -2 = 2

Step 2) Then subtract both the numbers down and write the number in 3rd row of boxes.

Left Box) 14 – 4 = 10 and 10 – 1 = 9

Right Box) 19 -4 = 15   and 15 – 2 = 13

Step 3) Subtract across and down for the 3rd row and column to complete it.

14	10	4
4	1	3
10	9	1

19	15	4
4	2	2
15	13	2

Left Box) 10 – 9 = 1 and 4- 3 = 1

Right Box) 15 – 13 = 2 and 4 – 2 = 2

Explanation to #3

Step 1) We have to rework the equations to make the missing boxes equal to our unknowns. We can do this by just changing the sign of numbers on the same sign of the unknowns.

a) 16 – 6 = 10

b) 10 – 0 = 10

c) 10 - 8 = 2

d) 7 -4 = 3

Step 2)

　　　a.　6　+　| 10 |　= 16

Here we have to subtract 6 from 16.

　　　16 – 6 = 10

　　　b. 10　-　| 10 |　= 0

Whenever 0 comes while doing subtraction, the number had to be taken from itself.

　　　C.　8　+　| 2 |　= 10

Here we have to subtract 8 from 10.

　　　10 – 8 = 2

　　　d.　7　-　| 3 |　= 4

Here we have to subtract 4 out of 7.

　　　7 – 4 = 3