Name	Date
Materials:	a 5-hole by 5-hole pegboard jumbo pegs a pencil six sheets of 2 rows 5-hole by 5-hole pegboard paper 3" by 5" index cards

a broad-tipped marker for the front of the flashcards

1.) Put five red pegs in the first row.

Put five blue pegs in the second row.

Copy onto "2 rows of 5-hole by 5-hole pegboard paper."

How many red pegs?

How many blue pegs?

How many pegs altogether are on the pegboard? _____

On the pegboard paper, write the addition number sentence for the total number of pegs on the pegboard in this form.

of **red** pegs + # of **blue** pegs = 10

You should have written

5 + 5 = 10

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This equation has a plus sign. So this equation shows the

arithmetic operation of ______.

The inverse operation of addition is ______.

Now you are going to write the subtraction equation related to this addition equation.

How many pegs altogether?

How many blue pegs?

How many red pegs?

Fold the pegboard paper longitudinally in half. Next to 5 + 5 = 10

write the subtraction equation in this form

total # of pegs - # of **blue** pegs = # of **red** pegs

You should have on the pegboard paper

$$5 + 5 = 10$$
 $10 - 5 = 5$

Put a loop around this addition/subtraction fact family.

 5 + 5 = 10
 10 - 5 = 5

Now back to the pegboard.

2.) Replace the first blue peg in the second row with a red peg.

Copy onto another sheet of "2 rows of 5-hole by 5-hole pegboard paper."

How many red pegs?

How many blue pegs?

How many pegs altogether are on the pegboard?

On the pegboard paper, write the addition number sentence for the total number of pegs on the pegboard in this form.

of **red** pegs + # of **blue** pegs = 10

You should have written

6 + 4 = 10

The numbers being added are the **addends**. 6 and 4 are the addends.

The result of addition is the **sum.** 10 is the sum.

How many blue pegs?

How many red pegs?

How many pegs altogether are on the pegboard?

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Beneath 6 + 4 = 10 write the addition number sentence for the total number of pegs on the pegboard in this form.

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# of blue pegs + # of red pegs = 10
You should have written
    4 + 6 = 10
4 + 6 = 10 is the commute of 6 + 4 = 10
because the order of the addends are switched
but the sum is the same.
These two equation have a plus sign. So these equations show the
arithmetic operation of _____
The inverse operation of addition is ______.
Now you are going to write the subtraction equations related to
this addition equations.
How many pegs altogether?
How many blue pegs?
How many red pegs?
Fold the pegboard paper longitudinally in half.
Next to 6 + 4 = 10
write the subtraction equation in this form
    total # of pegs - # of blue pegs = # of red pegs
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You should have on the pegboard paper

6 + 4 = 10 10 - 4 = 6

Next to 4 + 6 = 10write the subtraction equation in this form

total # of pegs - # of **red** pegs = # of **blue** pegs

Now all the equations you should have on the pegboard paper are

6 + 4 = 10 10 - 4 = 6

4 + 6 = 10 10 - 6 = 4

The two arithmetic operations shown here are

_____ and _____

So this is an addition/subtraction fact family.

Put a loop around this addition/subtraction fact family



Now back to the pegboard.

3.) Replace the blue peg in the second hole in the second row with a red peg.

Copy onto another sheet of "2 rows of 5-hole by 5-hole pegboard paper."

How many red pegs?

How many blue pegs?

How many pegs altogether are on the pegboard?

Write the addition/subtraction fact family related to this situation on the pegboard and put a loop around it.

$$7+3=10$$
 $10-3=7$
 $3+7=10$ $10-7=3$

4.) Replace the blue peg in the third hole in the second row with a red peg.

Copy onto another sheet of "2 rows of 5-hole by 5-hole pegboard paper."

Write the addition/subtraction fact family related to this situation on the pegboard and put a loop around it.



5.) Replace the blue peg in the fourth hole in the second row with a red peg.

Copy onto another sheet of "2 rows of 5-hole by 5-hole pegboard paper."

Write the addition/subtraction fact family related to this situation on the pegboard and put a loop around it.



6.) Replace the blue peg in the last hole in the second row with a red peg.

Copy onto another sheet of "2 rows of 5-hole by 5-hole pegboard paper."

Write the addition/subtraction fact family related to this situation on the pegboard and put a loop around it.



- 7.) Make the addition and subtraction flash cards for the facts you have written on these six sheets of pegboard paper.
- 8.) There is one more equation related to this situation you may write. On the first page of the pegboard paper you have written

In 5 + 5 = 10, notice that you are **using 5 as an addend two times**. So you may write

2(5) = 10 which is read "Two times five equals ten."