

Key Vocabulary

partition

part-whole

add

equals

total

count on / back

number bonds

subtract

takeaway

fact family

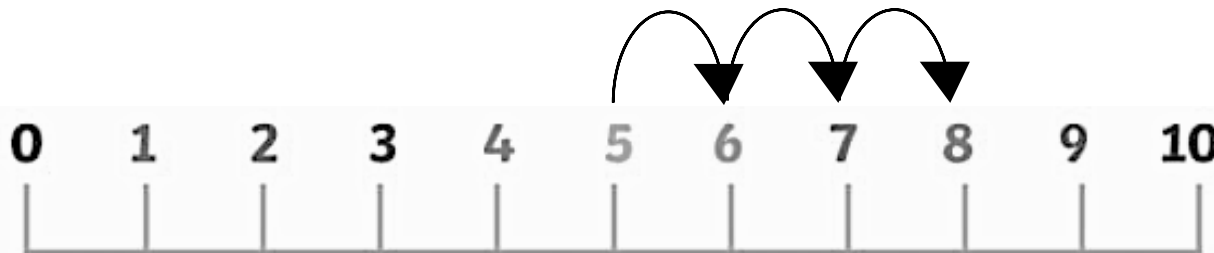
find the difference

commutativity



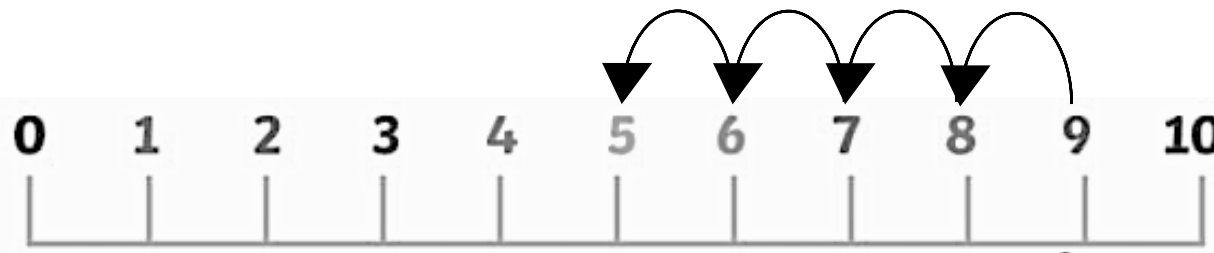
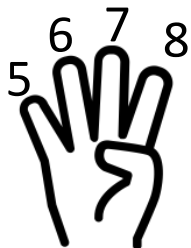
Counting on

$$5 + 3 = 8$$



Counting back

$$9 - 4 = 5$$



Number bonds to 5 and fact families

The three digits in a fact family never change.

$$5 + 0 = 5$$

$$0 + 5 = 5$$

$$5 - 0 = 5$$

$$5 - 5 = 0$$



$$4 + 1 = 5$$

$$1 + 4 = 5$$

$$5 - 4 = 1$$

$$5 - 1 = 4$$

$$3 + 2 = 5$$

$$2 + 3 = 5$$

$$5 - 3 = 2$$

$$5 - 2 = 3$$



Number bonds to 10 and fact families

$$9 + 1 = 10$$

$$1 + 9 = 10$$

$$10 - 9 = 1$$

$$10 - 1 = 9$$



$$10 + 0 = 10$$

$$0 + 10 = 10$$

$$10 - 10 = 0$$

$$10 - 0 = 10$$



$$8 + 2 = 10$$

$$2 + 8 = 10$$

$$10 - 8 = 2$$

$$10 - 2 = 8$$

$$7 + 3 = 10$$

$$3 + 7 = 10$$

$$10 - 7 = 3$$

$$10 - 3 = 7$$



$$6 + 4 = 10$$

$$4 + 6 = 10$$

$$10 - 6 = 4$$

$$10 - 4 = 6$$

$$5 + 5 = 10$$

$$5 + 5 = 10$$

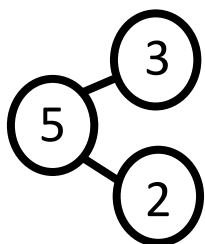
$$10 - 5 = 5$$

$$10 - 5 = 5$$



Partitioning

Partition means split into parts. The two parts must equal the total. We can use partitioning to help us remember number bonds and fact families.

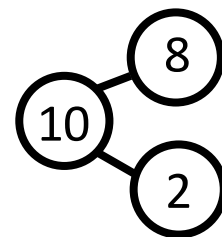


$$3 + 2 = 5$$

$$2 + 3 = 5$$

$$5 - 3 = 2$$

$$5 - 2 = 3$$



$$8 + 2 = 10$$

$$2 + 8 = 10$$

$$10 - 8 = 2$$

$$10 - 2 = 8$$