



# Addition and Subtraction Number Sense

*Dear Family,*

Your child is learning strategies for adding, subtracting, and estimating sums and differences. One of these strategies is using fact families. A fact family contains two addition facts and two subtraction facts using the same three numbers.

Here is an example of a fact family that includes 6, 7, and 13.

$$\begin{array}{rcl} 6 + 7 = 13 & & 13 - 7 = 6 \\ 7 + 6 = 13 & & 13 - 6 = 7 \end{array}$$

A doubles fact, such as  $3 + 3 = 6$ , has a fact family with only one addition and one subtraction fact, and includes only 2 numbers. Help your child recognize and use fact families. Here are two activities you can do together.

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## Complete the Fact Family

Write one addition or subtraction fact of a fact family, and have your child say or write the other facts. For example: You write:  $3 + 6 = 9$ . Your child writes:  $6 + 3 = 9$ ;  $9 - 3 = 6$ ;  $9 - 6 = 3$ .

## Find the Missing Number

**Step 1** Write an addition or subtraction fact with one number missing.

For example,  $10 - \underline{\quad} = 6$ .

**Step 2** Ask your child to fill in the missing number. Encourage your child to tell how he or she solves the problem. Your child could use fact families to help. For example,  $6 + 4 = 10$ , so  $10 - 4 = 6$ .

**Step 3** Now reverse roles. Have your child write an addition or subtraction fact with one number missing. Tell your child the fact from the fact family that helps you find the answer.



## Comprensión numérica de la suma y la resta

*Estimada familia,*

Su hijo(a) está aprendiendo estrategias para sumar, restar y estimar sumas y diferencias. Una de estas estrategias es usar familias de operaciones. Una familia de operaciones contiene dos operaciones de suma y dos de resta utilizando los mismos tres números.

El siguiente es un ejemplo de una familia de operaciones que contiene los números 6, 7 y 13.

$$\begin{array}{ll} 6 + 7 = 13 & 13 - 7 = 6 \\ 7 + 6 = 13 & 13 - 6 = 7 \end{array}$$

Una operación doble, tal como  $3 + 3 = 6$ , tiene una familia de operaciones de sólo una suma y una resta, y contiene sólo 2 números. Ayude a su hijo(a) a reconocer y usar familias de operaciones. A continuación encontrará dos actividades que pueden hacer juntos.

### Completar la familia de operaciones

Escriba una operación de suma o de resta perteneciente a una familia de operaciones e invite a su hijo(a) a que diga o escriba las otras tres operaciones. Por ejemplo: Usted escribe:  $3 + 6 = 9$ . Su hijo(a) escribe:  $6 + 3 = 9$ ;  $9 - 3 = 6$ ;  $9 - 6 = 3$ .

### Escribir el número que falta

**Paso 1** Escriba una operación de suma o de resta donde haga falta un número. Por ejemplo,  $10 - \underline{\quad} = 6$ .

**Paso 2** Pida a su hijo(a) que escriba el número que falta. Anímelo(a) a que le diga cómo resuelve el problema. A su hijo(a) le pueden servir las familias de operaciones como ayuda. Por ejemplo,  $6 + 4 = 10$ , entonces  $10 - 4 = 6$ .

**Paso 3** Ahora pida a su hijo(a) que sea él o ella quien escriba una operación de suma o resta donde falte un número. Muéstrole la operación perteneciente a la familia de operaciones que le ayudó a obtener la respuesta.

Name \_\_\_\_\_



## Relating Addition and Subtraction

### Problem

There are 14 birds in a tree. Nine birds fly away.

How many birds are left in the tree?

If the 9 birds came back, how many birds would there be in the tree?

1. How many birds in all? \_\_\_\_\_

How many birds fly away? \_\_\_\_\_

Write the subtraction fact. \_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

2. Check the subtraction with addition.  
Nine birds come back.

Write the addition fact. \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

3. Write the fact family for 5, 9, and 14.

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Now do these:

Write an addition fact to check each subtraction fact.

4. There are 16 frogs in the pond. Seven frogs hop away. How many frogs are left?

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_ Check by adding: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

5. There are 14 monkeys in a tree. Seven monkeys are sleeping. How many monkeys are not sleeping?

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_ Check by adding: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_



## Relating Addition and Subtraction

**Your goal:** to help your buddy understand that addition and subtraction are opposite operations so he or she can use addition to check subtraction.

1. Read the problem with your buddy. He or she should say that there are 14 birds in all and that 9 birds fly away. Make sure that he or she starts the subtraction fact with the number of birds in all.  $14 - 9 = 5$
2. Tell your buddy that she or he can check the subtraction by using a related addition fact. If necessary, ask your buddy to use counters, such as pennies or buttons, to act out the problem. Have your buddy add the number of birds that come back to the number of birds left in the tree.  $9 + 5 = 14$ . Note that the order of the addends may vary, so your buddy may write  $5 + 9 = 14$ .
3. Your buddy should understand that to find  $14 - 9$ , she or he should think of the addition fact  $9 + 5 = 14$ . He or she should also be able to write the fact family:  $5 + 9 = 14$ ;  $9 + 5 = 14$ ;  $14 - 5 = 9$ ;  $14 - 9 = 5$ .
4. Read the problems with your buddy. Make sure he or she understands what has to be done to find the difference.

$$16 - 7 = 9 \quad \text{Check by adding: } 7 + 9 = 16 \text{ or } 9 + 7 = 16$$

5.  $14 - 7 = 7$  Check by adding:  $7 + 7 = 14$

Set up these problems in a vertical format if you think it will help your study buddy.

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**Try this:** Play a game. Make number cards with numbers from 1 to 19. One player turns over two cards and writes a subtraction fact. The other player then writes an addition fact to check the subtraction. Then trade roles.