

## **Doubling and Halving Facts: Directions**

### **Activity/Game 1: Doubling and Halving Facts: Doubling Facts**

- Number cube
- Colored pencils

### **Activity/Game 2: Doubling and Halving Facts: Halving Facts**

- **Doubling and Halving Facts: Halving Facts Cards** (copy on colored cardstock)—1 set per group of 2 students
- **Doubling and Halving Facts: Difference Cards** (copy on a different color of cardstock)—1 set per group of 2 students

### **Doubling and Halving Facts: Practice Problems**

### **Doubling and Halving Facts: Checkpoint**

#### **Debriefing Questions:**

- What is the relationship between one addend and the sum when doubling a number?
- What is the relationship between the minuend/subtrahend and the difference when halving a number?

## Doubling and Halving Facts: Doubling Facts

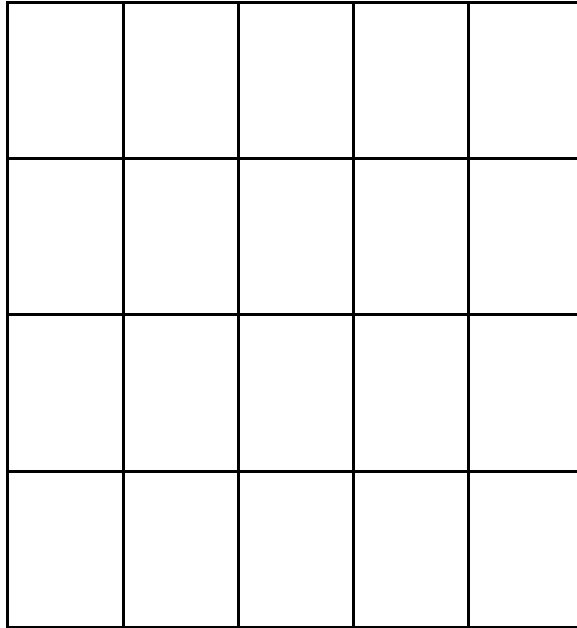
- Distribute one number cube to each person.
- Roll your number cube.
- Double the number rolled.
- Shade in a box to show the sum when the number rolled is doubled.
- Repeat until one of the sums has been shaded five times.

2	4	6	8	10	12

## Doubling and Halving Facts: Halving Facts

- Decide who will be Partner A and who will be Partner B.
- Mix up the sets of **Halving Fact Cards** and **Difference Cards**.
- Place the cards face down in 4 rows with 5 cards in each row.

*For example:*



- Partner A will turn over one card of each color.
- If the halving fact card matches the difference card, Partner A keeps the cards.
- If the cards do not match, turn the cards back over.
- Partner B will then turn over one card of each color.
- If the halving fact card matches the difference card, Partner B keeps the cards.
- If the cards do not match, turn the cards back over.
- Continue until all cards have been matched.

## Doubling and Halving Facts: Halving Facts Cards

*Cut along the dashed lines.*

2

-1

4

-2

6

-3

8

-4

10

-5

12

-6

14

-7

16

-8

18

-9

20

-10

## Doubling and Halving Facts: Difference Cards

*Cut along the dashed lines.*

1

2

3

4

5

6

7

8

9

10

Name \_\_\_\_\_ Date \_\_\_\_\_

## Doubling and Halving Facts: Practice Problems

Record your answer to the questions below.

**1** Pam had 8 bottles of water. Her mom gave her 8 more. How many bottles of water does Pam have now?

**2** Zach had 18 baseball cards. He gave 9 baseball cards to his brother. How many baseball cards does Zach have now?

Record the missing number in each equation below.

**3**  $12 = 6 + \boxed{\phantom{00}}$

**4**  $10 - \boxed{\phantom{00}} = 5$

**5**  $\boxed{\phantom{00}} + 10 = 20$

**6**  $\boxed{\phantom{00}} - 7 = 7$

*Cut along the dashed line. Two sets are provided.*

**Doubling and Halving Facts:  
Checkpoint**

**1**  $7 + 7 = \underline{\hspace{2cm}}$

**2**  $10 - 5 = \underline{\hspace{2cm}}$

**3**  $8 + 8 = \underline{\hspace{2cm}}$

**4**  $8 - 4 = \underline{\hspace{2cm}}$

**5**  $10 + 10 = \underline{\hspace{2cm}}$

**6**  $18 - 9 = \underline{\hspace{2cm}}$

**7**  $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 10$

**8**  $\underline{\hspace{2cm}} - 7 = 7$

**9**  $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 18$

**10**  $\underline{\hspace{2cm}} - 8 = 8$

**Doubling and Halving Facts:  
Checkpoint**

**1**  $7 + 7 = \underline{\hspace{2cm}}$

**2**  $10 - 5 = \underline{\hspace{2cm}}$

**3**  $8 + 8 = \underline{\hspace{2cm}}$

**4**  $8 - 4 = \underline{\hspace{2cm}}$

**5**  $10 + 10 = \underline{\hspace{2cm}}$

**6**  $18 - 9 = \underline{\hspace{2cm}}$

**7**  $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 10$

**8**  $\underline{\hspace{2cm}} - 7 = 7$

**9**  $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 18$

**10**  $\underline{\hspace{2cm}} - 8 = 8$