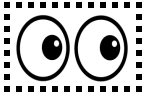# **Finding the Median**

**Terms:**
**Median -** the middle value of a set of numbers

**Objective:**
You will learn to find the median of a set of numbers.

**Steps:**

| **1.** Put the values **in order**. | Number Set: 64, 72, 36, 49, 80<br><br>In Order: 36, 49, 64, 72, 80 |
|---|---|
| **2.** Find the **middle** number. | ~~36~~, ~~49~~, **64**, ~~72~~, ~~80~~ |
| **Hint:** Count or cross out numbers from both ends and work your way to the middle. | |

### **If there are TWO middle numbers:**

| **1.** Put the values **in order**. | Number Set: 32, 54, 11, 39, 45, 61<br><br>In Order: 11, 32, 39, 45, 54, 61 |
|---|---|
| **2.** Find the **middle** number. | ~~11~~, ~~32~~, **39**, **45**, ~~54~~, ~~61~~ |
| **3.** Find the **mean** of the two middle numbers. | 39 + 45 = 84<br>84 ÷ 2 = **42** |
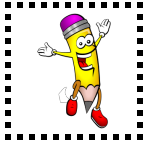
## **Examples:**

Ex. 1   Ages of cousins in a family

Set: 15, 13, 11, 9, 17, 21, 29, 25, 30, 28, 33, 34, 17

Set in order: 9, 11, 13, 15, 17, 17, 21, 25, 28, 29, 30, 33, 34

~~9, 11, 13, 15, 17, 17,~~ <u>21</u>, ~~25, 28, 29, 30, 33, 34~~

Median = 21

Ex. 2   Hourly babysitting rates (in dollars)

Set: 4.00, 3.15, 3.75, 3.30, 3.75, 3.50, 3.25, 3.25, 3.00, 3.60

Set in order: 3.00, 3.15, 3.25, 3.25, 3.30, 3.50, 3.60, 3.75, 3.75, 4.00

~~3.00, 3.15, 3.25, 3.25,~~ <u>3.30</u>, <u>3.50</u>, ~~3.60, 3.75, 3.75, 4.00~~

Average of the two middle numbers: 3.30 + 3.50 = 6.80 ÷ 2 = 3.40

Median = 3.40

**<u>YOU GOT THIS</u>:**

**1)** Find the **median** of this data set: 5 , 7 , 8 , 4 , 8 , 5 , 6

**2)** Find the **median** of this data set: 17, 9 , 10, 16, 7 , 16, 18, 17, 14, 9 , 10

**3)** Find the **median** of this data set: 39, 36, 69, 29, 60, 42, 51, 88, 94, 66