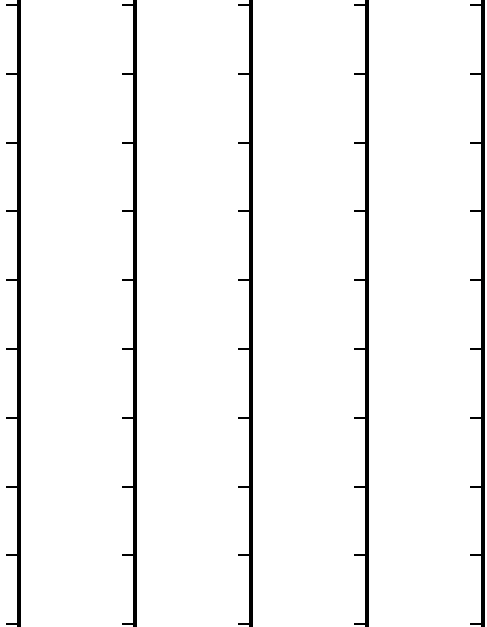
**Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rounding, Comparing and Ordering Decimals

# Number Lines

**Fill in the numbers on the number line.**



# Lies Between

Decimals always lie in between two whole numbers.

**Fill in these washing lines by writing the whole numbers that the decimals lie between.**

Whole number

......................

Whole number

......................

3.2

Whole number

Whole number

......................

......................

4.6

3.2 to the nearest whole number is 🖉 \_\_\_\_\_\_\_\_ 4.6 to the nearest whole number is 🖉 \_\_\_\_\_\_\_\_

Whole number

......................

Whole number

......................

9.3

Whole number

......................

Whole number

......................

8.5

9.3 to the nearest whole number is 🖉 \_\_\_\_\_\_\_\_ 8.5 to the nearest whole number is 🖉 \_\_\_\_\_\_\_\_

**Fill in these washing lines by writing the nearest TENTH (above and below) that the hanging number lies between.**

The first one is done for you.

One tenth below

......................

One tenth above

......................

4.76

One tenth below

......................

One tenth above

......................

5.82

4.76 to the nearest tenth is 🖉 4.8 5.82 to the nearest tenth is 🖉 \_\_\_\_\_\_\_\_

One tenth below

......................

One tenth above

......................

0.55

One tenth below

......................

One tenth above

......................

7.63

0.55 to the nearest tenth is 🖉 \_\_\_\_\_\_\_\_ 7.63 to the nearest tenth is 🖉 \_\_\_\_\_\_\_\_

# Greater than or Less than

**Fill in the gaps with ‘greater’ or ‘less’ so that the number sentences make sense.**

|  |  |
| --- | --- |
| 1. 150 is greater than 130 2. 2.5 is less than 25 3. 7 is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than 3 4. 0.4 is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than 0.6 5. 0.11 is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than 0.26 | 1. 2.8 is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than 1.6 2. 10.95 is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than 10.89 3. 25.3 is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than 25.8 4. 6.8 is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than 6.5 |

Instead of using words like ‘greater than’ or ‘less than’ we can use symbols.

> means ‘greater than’

< means ‘less than’

**Decimals**

**Fill in the gaps below with < or > so that the number sentences make sense.**

|  |  |
| --- | --- |
| 1. 0.5 \_\_\_\_\_\_\_\_ 0.3 2. 0.77 \_\_\_\_\_\_\_\_ 0.63 3. 1.85 \_\_\_\_\_\_\_\_ 1.23 4. 7.65 \_\_\_\_\_\_\_\_ 7.36 | 1. 12.88 \_\_\_\_\_\_\_\_ 12.91 2. 1.005 \_\_\_\_\_\_\_\_ 1.042 3. 2.153 \_\_\_\_\_\_\_\_ 2.158 4. 4.45 \_\_\_\_\_\_\_\_ 4.59 |

# Show me the zero!

Look at these two numbers:

|  |  |  |
| --- | --- | --- |
| **4.6** |  | **4.60** |

They look different but actually they are worth the same. In the second number you will notice there is a zero in the hundredths column.

The zero does not change the size of the number.

In fact, I could keep adding zeros and it would not change the size of the number, like this:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **4.60** |  | **4.600** |  | **4.6000** |  | **4.60000** |

**Fill in the blank spaces with a zero.**

|  |  |
| --- | --- |
| 1. 0.5 = 0.5\_\_ 2. 4.7 = 4.7\_\_ 3. 16.8 = 16.8\_\_ \_\_ 4. 9.1 = 9.1\_\_ | 1. 8.0 = 8.0\_\_ \_\_ 2. 2.65 = 2.65\_\_ 3. 33.6 = 33.6\_\_ \_\_ 4. 0.1 = 0.1\_\_ \_\_ |

**Fill in the gaps below with < or > so that the number sentences make sense.**

**Hint:** You might need to add some zeros in to make it easier to compare the numbers.

|  |  |
| --- | --- |
| 1. 0.51 \_\_\_\_\_\_\_\_ 0.5 2. 0.77 \_\_\_\_\_\_\_\_ 0.8 3. 0.77 \_\_\_\_\_\_\_\_ 0. 7 4. 3.0 \_\_\_\_\_\_\_\_ 3.65 | 1. 12.88 \_\_\_\_\_\_\_\_ 12.885 2. 1.005 \_\_\_\_\_\_\_\_ 1.04 3. 2.153 \_\_\_\_\_\_\_\_ 2.15 4. 4.45 \_\_\_\_\_\_\_\_ 4.459 |

# Sorted

**Put the cards in order from smallest to biggest.** Record your answers here:

1. **Blue** cards:🖉\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Pink** cards: 🖉\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Green** cards: 🖉\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rounding, Comparing and Ordering Decimals

# Lies Between

Decimals always lie in between two whole numbers.

**Fill in these washing lines by writing the whole numbers that the decimals lie between.**

Whole number

......................

Whole number

......................

3.2

Whole number

Whole number

......................

......................

4.6

3.2 to the nearest whole number is 🖉 \_\_\_\_\_\_\_\_ 4.6 to the nearest whole number is 🖉 \_\_\_\_\_\_\_\_

Whole number

......................

Whole number

......................

9.3

Whole number

......................

Whole number

......................

8.5

9.3 to the nearest whole number is 🖉 \_\_\_\_\_\_\_\_ 8.5 to the nearest whole number is 🖉 \_\_\_\_\_\_\_\_

**Fill in these washing lines by writing the nearest TENTH (above and below) that the hanging number lies between.**

The first one is done for you.

One tenth below

......................

One tenth above

......................

4.76

One tenth below

......................

One tenth above

......................

5.82

4.76 to the nearest tenth is 🖉 4.8 5.82 to the nearest tenth is 🖉 \_\_\_\_\_\_\_\_

One tenth below

......................

One tenth above

......................

0.55

One tenth below

......................

One tenth above

......................

7.63

0.55 to the nearest tenth is 🖉 \_\_\_\_\_\_\_\_ 7.63 to the nearest tenth is 🖉 \_\_\_\_\_\_\_\_

**Fill in these washing lines by writing the nearest HUNDREDTH (above and below) that the hanging number lies between.**

The first one is done for you.

One hundredth below

......................

One hundredth above

......................

3.426

One hundredth below

......................

One hundredth above

......................

6.182

3.426 to the nearest hundredth is 🖉 3.43 6.182 to the nearest hundredth is 🖉 \_\_\_\_\_\_\_\_

One hundredth below

......................

One hundredth above

......................

7.095

One hundredth below

......................

One hundredth above

......................

5.343

7.095 to the nearest hundredth is 🖉 \_\_\_\_\_\_\_\_ 5.343 to the nearest hundredth is 🖉 \_\_\_\_\_\_\_\_

**Decimals**

**Fill in the gaps below with < or > so that the number sentences make sense.**

|  |  |
| --- | --- |
| 1. 0.5 \_\_\_\_\_\_\_\_ 0.3 2. 0.77 \_\_\_\_\_\_\_\_ 0.63 3. 1.85 \_\_\_\_\_\_\_\_ 1.23 4. 7.65 \_\_\_\_\_\_\_\_ 7.36 | 1. 12.88 \_\_\_\_\_\_\_\_ 12.91 2. 1.005 \_\_\_\_\_\_\_\_ 1.042 3. 2.153 \_\_\_\_\_\_\_\_ 2.158 4. 4.45 \_\_\_\_\_\_\_\_ 4.59 |

**Fill in the gaps below with < or > so that the number sentences make sense.**

**Hint:** You might need to add some zeros in to make it easier to compare the numbers.

|  |  |
| --- | --- |
| 1. 0.51 \_\_\_\_\_\_\_\_ 0.5 2. 0.77 \_\_\_\_\_\_\_\_ 0.8 3. 0.77 \_\_\_\_\_\_\_\_ 0. 7 4. 3.0 \_\_\_\_\_\_\_\_ 3.65 | 1. 12.88 \_\_\_\_\_\_\_\_ 12.885 2. 1.005 \_\_\_\_\_\_\_\_ 1.04 3. 2.153 \_\_\_\_\_\_\_\_ 2.15 4. 4.45 \_\_\_\_\_\_\_\_ 4.459 |

# In order

**Write these decimals in order from smallest to biggest:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **4.75** |  | **4.1** |  | **4.05** |  | **4.8** |

🖉**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Write these decimals in order from smallest to biggest:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **7.32** |  | **7.8** |  | **7.237** |  | **7.723** |

🖉**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

# Use these cards to make

Look at these cards:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **2** |  | **8** |  | **6** |  | **5** |

1. Use each card once to make the closest number to 20.

🖉\_\_\_\_\_\_\_\_\_\_

1. Use each card once to make the closest number to 60.

🖉\_\_\_\_\_\_\_\_\_\_

1. Use each card once to make the closest number to 80.

🖉\_\_\_\_\_\_\_\_\_\_

# Out of order

Someone has tried sorting decimals. Unfortunately, they didn’t always get the order right. Sometimes they were right and sometimes they were wrong.

**In each row, put a circle round the decimal that is out of place.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **0.1** |  | | | **0.8** |  | | | **0.2** |  | | | **0.5** |  | | | **0.7** |
|  |  | | |  |  | | |  |  | | |  |  | | |  |
| **2.9** |  | | | **2.1** |  | | | **2.3** |  | | | **2.5** |  | | | **2.6** |
|  |  | | |  |  | | |  |  | | |  |  | | |  |
| **9.2** |  | | | **9.3** |  | | | **9.5** |  | | | **9.7** |  | | | **9.8** |
|  | |  |  | | |  |  | | |  |  | | |  |  | | |
| **0.22** | |  | **0.23** | | |  | **0.29** | | |  | **0.25** | | |  | **0.26** | | |

# Sorted

**Put the cards in order from smallest to biggest.** Record your answers here:

1. **Blue** cards:🖉\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Pink** cards: 🖉\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Green** cards: 🖉\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# 