Rational Number Study Guide: Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Find in your notebook information on opposite numbers**

|  |  |
| --- | --- |
| What is the definition of **opposite Numbers**? |  |
| Find **3** examples in your notebook of opposites | Original problem Rework the answer  1.  2.  3. |
| Find in your notebook how to write a math problem that reads “what is the opposite of this number” – meaning what math symbols are used to write that problem. |  |

**Find in your notebook information on absolute value**

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| --- | --- |
| What is the definition of **absolute value**? |  |
| Find **3** examples in your notebook of 3 different types of absolute value problems. 1 with a negative number, 1 with a positive number, and one with a negative outside of the absolute value sing. | Original problem Rework the answer  1.  2.  3. |

**Find in your notebook information about finding the difference of a number on a number line**

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| --- | --- |
| How do you find the difference between two numbers on a number line? |  |
| Find **3** examples in your notebook asking what the difference between the numbers are. | Original problem Rework the answer  1.  2.  3. |

**Find in your notebook information about real world scenarios using positive and negative integers.**

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| --- | --- |
| List 4 key words for negative integer word problems  List 4 key words for positive integer word problems | Negatives:  Positives: |
| Come up with 4 real-world integer statements of your own and then write down the integer being used. | 1.  2.  3.  4. |

**Find in your notebook how to convers between fractions and decimals**

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| --- | --- | --- |
| When changing from a fraction to a decimal, how do you know what number goes in the division house? |  | |
|  | Original problem | Rework the problem? Were you correct? |
| Find 3 examples in your notebook asking you to change a fraction into a decimal | 1.  2.  3. |  |
| What common error do student make with this type of problem? |  | |

**Find in your notebook information about changing a decimal into a percent, a percent into a decimal, and a percent into a fraction.**

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| --- | --- |
| When comparing decimals, percent’s, and fractions, what type of number should you change them all into before making your comparison? |  |
| How many spots and in what direction do you move the invisible decimal to make a percent into a decimal? Give 4 examples, choose 1 example that is a 1 digit percent, 1 that is a 2 digit percent, 3 digit percent, and a percent that has a decimal already in it. | How many spots?  What direction?  1. 3.  2. 4. |
| How many spots and in what direction do you move the decimal to make a decimal into a percent? Give 2 examples. | How many spots?  What direction?  1. 2. |
| How do you make a percent into a fraction?  Find an example in your notebook. | How do you do it?  Example: |

**Find in your notebook information on plotting points on a number line**

|  |  |
| --- | --- |
| When looking at a number line how can you visibly identify the smallest number and the largest number? |  |

**Number line practice. Place these number on the number line.**

**– (–5) -1.5 3.2 – –2**