# Positive and Negative Integers on a Number Line Notes

| Vocabulary |
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| Integer: a _____ _____ that is not a _____. |

| Number Line Review |
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· Number lines that extend _____ to _____ are called _____ number lines.

· Number lines that extend _____ and _____ are called _____ number lines.

· Integers (whole numbers) are _____ spaced out from each other on a number line.

· Numbers on the number line that are located to the right of zero or above zero are _____ .

· Numbers on the number line that are located to the left of zero or below zero are _____ .

· Positive numbers are _____ _____ negative numbers.

· Numbers to the left of zero are _____ than numbers to the right of zero.

· The further a number is from zero on the left side (negative side), the _____ it is.

· The further a number is from zero on the right side (positive side), the _____ it is.

· If there is a - symbol in front of a number, we know that it is _____ or "opposite of" that number.

· Two numbers are considered _____ when they are the same distance away from zero on a number line.

```
-5
-4
-3
-2
-1
 0
 1
 2
 3
 4
 5
```

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←|+|+|+|+|+|+|+|+|+|+|→
 -5 -4 -3 -2 -1 0 1 2 3 4 5
```

LIVEWORKSHEETS
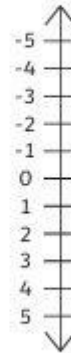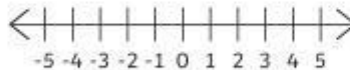
## Number Line Practice
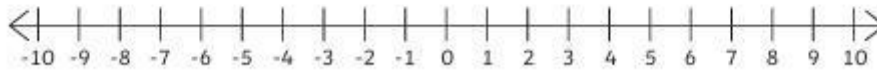
Look at the number line below. Use what you see to prove that the two numbers are opposites.
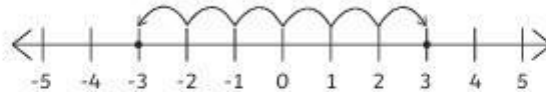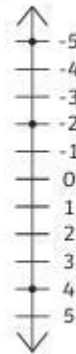
_____ and _____ are opposites because they are both _____.

## Plotting Integers on a Number Line

1. Use the number line to help you answer the following questions.

a. The opposite of -4 is _____ because _____.

b. The opposite of 9 is _____ because _____.

c. The opposite of -1 is _____ because _____.

2. Look at the vertical number line. The numbers -2, 4, and -5 are plotted on the line. Determine each integer's opposite and explain using words.

3. Complete the table below.

| Integer | Location on the Number Line | Opposite | Number Line Model |
|---|---|---|---|
| -9 | | | |
| | six units to the right of 0 | | |
| | | -2 | |

4. Mark claims that -11 and 12 are opposites because they are the same distance from zero on a number line. Do you agree with Mark? Explain why or why not.