Introduction to Integers and Absolute Value

Student Name: _____

Class: _____

Due Date: _____

Introduction to Integers and Absolute Value

Welcome to this homework sheet on integers and absolute value. This worksheet is designed to help you understand the concept of integers and absolute value, and how to apply them to solve simple problems.
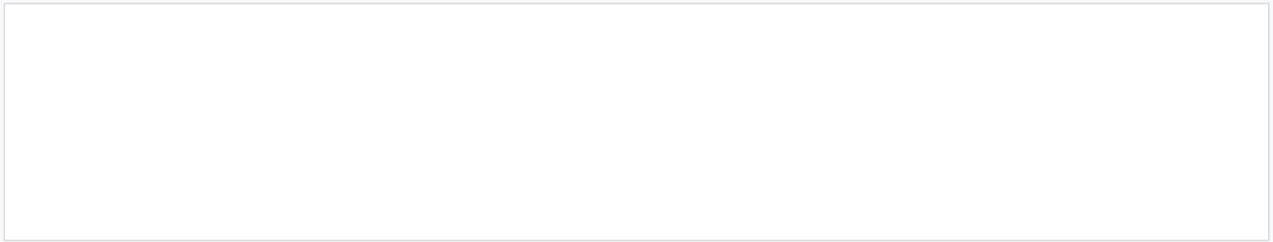
The objectives of this worksheet are:

- Define integers and absolute value
- Represent integers on a number line
- Apply absolute value to solve simple problems

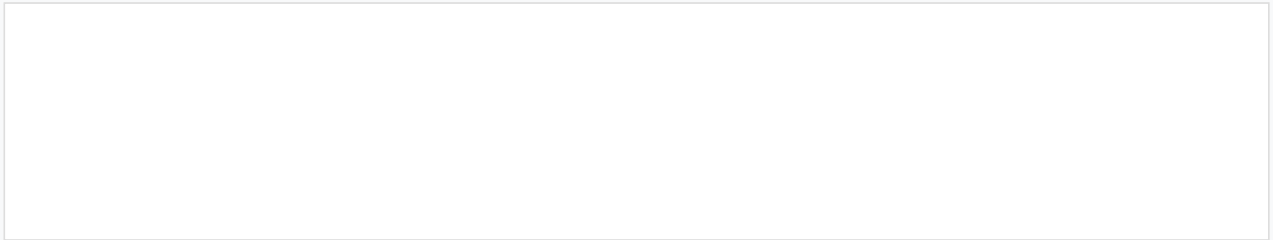## Section 1: Representing Integers on a Number Line

Draw a number line on a piece of paper with the numbers 0, 1, 2, 3, 4, 5.

Represent the following integers on the number line:

- 2
- -3
- 0
- 1

Write a short description of the location of each integer on the number line.

Section 2: Applying Absolute Value

Calculate the absolute value of the following numbers:

- |2|
- |-3|
- |0|
- |1|

Write a short interpretation of the absolute value of each number.

Section 3: Solving Simple Problems

Solve the following problems using absolute value:

- |2 + 3| = ?
- |-2 - 1| = ?
- |5 - 2| = ?

Write a short interpretation of each answer.
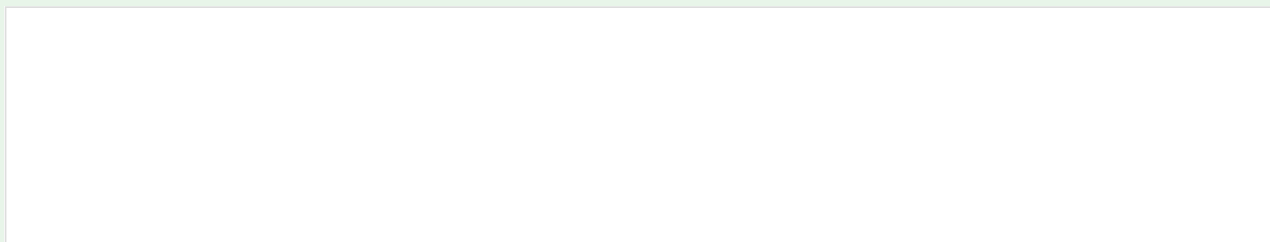
Section 4: Creating Your Own Problems

Create 3 simple problems that involve absolute value.

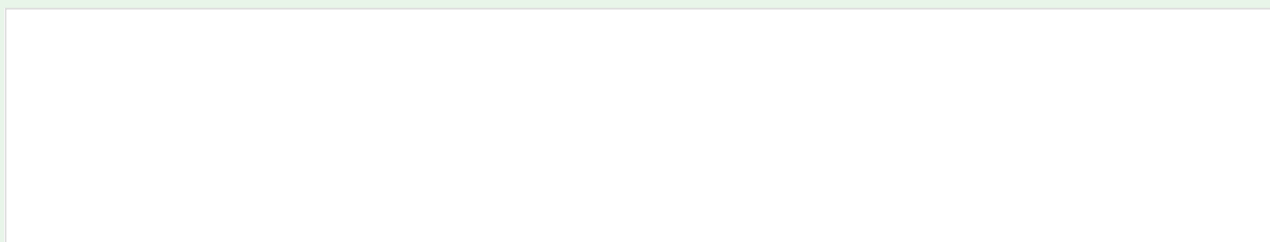Calculate the answers to the problems you created.

Exchange problems with a classmate and solve them together.
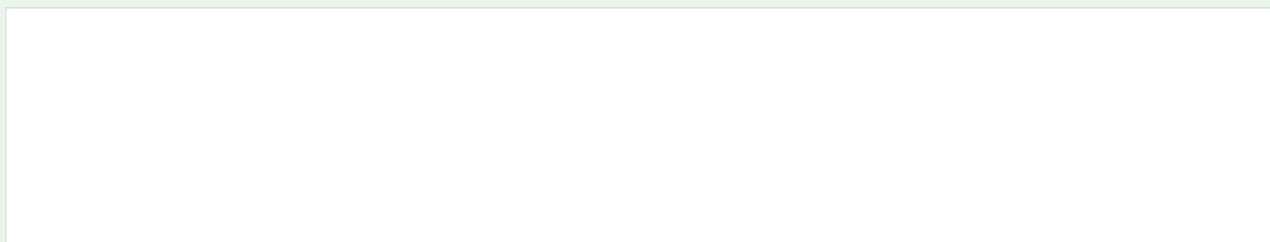
Section 5: Review and Assessment

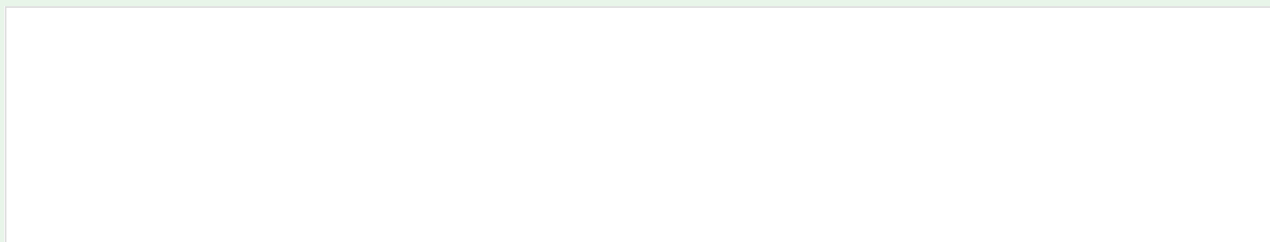Review your work to ensure that you have represented integers correctly on a number line.

Check that you have calculated the absolute value correctly.

Evaluate your ability to solve simple problems using absolute value.

Provide clear and concise interpretations of your results.

Conclusion

Congratulations on completing this homework sheet on integers and absolute value! Remember to review your work and ask for help if you need it. Keep practicing, and you will become proficient in using integers and absolute value to solve problems.

Parent/Guardian Notes

Monitor your child's progress and offer help when needed.

Encourage your child to use their time effectively to complete the activities.

Discuss the results with your child and provide guidance to improve their understanding of integers and absolute value.

Answers

Section 1:

- 2: 2 units to the right of 0
- -3: 3 units to the left of 0
- 0: at the origin
- 1: 1 unit to the right of 0

Section 2:

- |2| = 2
- |-3| = 3
- |0| = 0
- |1| = 1

Section 3:

- |2 + 3| = |5| = 5
- |-2 - 1| = |-3| = 3
- |5 - 2| = |3| = 3