

UNIT 1 - LESSON PLANS

Class Pre-Algebra Topic The Coordinate Plane

Lesson 12 Of 1

Objective

Students will:

- Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane.
- Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.
- Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane.

I understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane.

“I Can” Statement

I can find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.

I can solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane.

Common Core Standards

CCSS.MATH.CONTENT.6.NS.C.6.B

Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.

CCSS.MATH.CONTENT.6.NS.C.6.C

Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.

CCSS.MATH.CONTENT.6.NS.C.8

Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.

CCSS.MATH.CONTENT.7.RP.A.2.A

Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.

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Bell Work See 1-12 Bell work

Procedures

1. Start and lead student discussion related to the bell work.
2. Distribute the Guided Notes
3. Present lesson or play a video lesson.
4. Use an Online Activity if time permitted.
5. Distribute Lesson Assignment.

Assessment

Bell Work 1-12
Assignment 1-12
Exit Quiz 1-12

Additional Resources See Online Activities