

iPod in the Mail (5.NBT.7)

Summary

Students will apply their understanding of computation of decimal numbers to the hundredths place to solve a real world problem.

Main Core Tie

Mathematics Grade 5

[Strand: NUMBER AND OPERATIONS IN BASE TEN \(5.NBT\) Standard 5.NBT.7](#)

Time Frame

1 class periods of 60 minutes each

Group Size

Pairs

Life Skills

Thinking & Reasoning, Systems Thinking

Materials

- Paper
- Pencils
- Coins
- Dollar bills

Background for Teachers

Teachers need to have an understanding of the relationship between place value and the various operations students may use to compute the decimal numbers.

Student Prior Knowledge

Students need place value understanding and the role that this plays in decimal computation.

Intended Learning Outcomes

Students will demonstrate strategies for solving the problems and be able to determine the efficiency of various strategies for computing decimal numbers. CCSS.MATH.CONTENT.5.NBT.B.7 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

Strategies for Diverse Learners

Supports for struggling students may include:

- Organizational strategies including graph paper, T-Charts, etc.
- Modeling with coins and dollars
- Cut-outs of the stamps

Extensions

Extensions for the activity could include

Activities listed on lesson

Calculating the number of stamps needed at the current rate of \$0.49

Research FedEx and UPS rates and compare costs and delivery times

Bibliography

Adapted from: Smith, Margaret Schwan, Victoria Bill, and Elizabeth K. Hughes. "Thinking Through a Lesson Protocol: Successfully Implementing High-Level Tasks." *Mathematics Teaching in the Middle School* 14 (October 2008): 132-138.

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