

LESSON PLANS: ONTARIO

Grade 4: Data Management and Probability Probability

 45 MINS

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 Mathletics

Overall Curriculum Expectations:

- Read, represent, compare, and order whole numbers to 10 000, decimal numbers to tenths, and simple fractions, and represent money amounts to \$100.
- Solve problems involving the addition, subtraction, multiplication, and division of single- and multi-digit whole numbers, and involving the addition and subtraction of decimal numbers to tenths and money amounts, using a variety of strategies.

Specific Curriculum Expectations:

- Read and represent money amounts to \$100 (e.g., five dollars, two quarters, one nickel, and four cents is \$5.59).
- Add and subtract money amounts by making simulated purchases and providing change for amounts up to \$100, using a variety of tools (e.g., currency manipulatives, drawings).

Introduction to Lesson

 10 MINS

Teacher Background:

Log in to

Teacher Console > Demonstrations > Concept Search.

Type money into your search bar. Other suggested words are coins, cents, equivalent, and dollar. Review these words with students and add to your math word wall or math journals.

Play Marian Small's video, "Coin Count," found in

Teacher Console > eBooks > Grade 4 > Marian Small's Coin Count > Videos > Coin Count.

Pause during the video to explain each monetary value. Pause at the end of the video and have students come up with as many answers as they can in their table groups. Use the teacher notes for questions to prompt students.

ITEMS NEEDED

- ✓ Mathletics teacher login
- ✓ Interactive whiteboard
- ✓ Mathletics eBooks
- ✓ Marian Small's Coin Count eBook
- ✓ Die
- ✓ Coin manipulatives
- ✓ Samples of real coins

ASSESSMENTS

- ✓ Participation and group work checklist

ACCOMMODATIONS/ MODIFICATIONS

- ✓ Change monetary values to accommodate various learners.
- ✓ Use as centres for kinesthetic learners.
- ✓ Use ability groups; modify coin count problem to calculate change with easier or more difficult values.

EXTENSION OF LEARNING

- ✓ Mathletics eBook: Addition and Subtraction "Money" worksheets.
- ✓ Give students flyers from local grocery stores. Have students plan a meal (health) and determine how much that meal would cost. How many different ways could they pay for it?

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The Lesson

 20 MINS

Coin Count Problem:

- Go to Mathletics **Teacher Console** > **ebooks** > **Grade 4** > **Marian Small's Coin Count** > **Interactives Coin Count**. Display problem on interactive whiteboard.
- Use printable problem with cut-and-paste coins for students to follow along.
- Have students work with partners or in groups to solve the problem in as many ways as they can.
- Try changing the problem and have students determine a new answer. In the Teacher Notes, the "Extending the learning" section has a new Problem Solving question to use.

High Life Mathletics Problem Solving Game:

- Open the "High Life" Mathletics Problem Solving Game. Sign in to **Mathletics Teacher Console** > **Demonstrations** > **Problem Solving** > **Money** > **High Life**.
- Work through the Problem Solving activity together, calculating money and introducing change. Explain to students that when we pay for something, we have to give money of a certain value (which can be represented in many different ways) and then we may receive change in return. Ask students: What coins or bills could we use to make this change? What if we only had coins and no bills? Suppose you have 4 nickels—how many dimes would you need? How many quarters? What is this worth?



Calculate the Change:

- Use the Grade 4 Mathletics eBook "Addition and Subtraction." From the Teacher **Console** go to **eBooks** > **Grade 4** > **Addition and Subtraction**. In the Student, column, click on **Money**. Go to "Calculate the change" on pages 40–41. Print game sheets to give to students. Each partner/group will need two die.
- Students roll the die and using the number they roll, they need to determine how much change would be given according to the problem. Winner has the most money at the end of the game.

Consolidating the lesson

 15 MINS

Think, Pair, Share

- **Think** about how often we use money. When do we have to make change?
- **Pair** up with a person of the opposite sex.
- **Share** your real life experience of using money.



For more information contact our friendly team...
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