

# Play the Money Game

Let's Model in 3 Acts

## Lesson 10-2

I can ... use mathematical modeling to solve problems.



### ACT 1

1. After watching the video, what is the first question that comes to mind?
2. Write the Main Question you will answer.
3. **Communicate Math Ideas** Predict an answer to this Main Question. Explain your prediction.
4. The student  have enough money to buy the gaming system.
5. **Justify Math Arguments** Explain how you arrived at your prediction.

## ACT 2

6. What information in this situation would be helpful to know? How would you use that information?

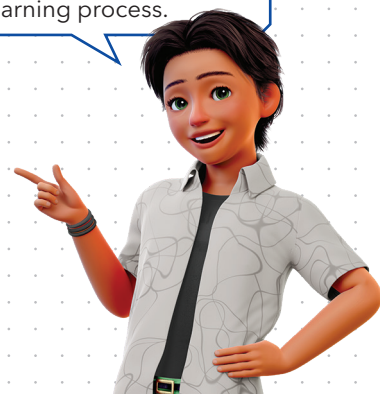
7. **Select Tools** What tools can you use to solve the problem? Explain how you would use them strategically.

8. **Represent Math Ideas** Represent the situation by using mathematics. Use your representation to answer the Main Question.

9. What is your answer to the Main Question? Does it differ from your prediction? Explain why.

### Build G.R.I.T. Grow Confidence

Push yourself to explore new ways to solve problems. Every attempt, right or wrong, is part of the learning process.



### ACT 3

10. Write the answer you saw in the video.

11. **Evaluate Reasonableness** Does your answer match the answer in the video? If not, what are some reasons that would explain the difference?

12. **Use a Problem-Solving Model** Would you change your model now that you know the answer? Explain.



## Reflect

- 13. Explain Math Ideas** Explain how you used a mathematical model to represent the situation. How did the model help you answer the Main Question?
- 14. Analyze Math Relationships** What key words do you notice that help determine which operations to use to find the final balance?

## Create a Problem

- 15.** Write your own problem related to the video in Act 1. Include any information needed to solve your problem. Explain how you would use a mathematical model to represent the situation. Then solve your problem.