PlayStation™

NTSC | U/C

# Advanced Addition and Subtraction

lightspan™ adventures

# MATH ON THE Move!™

This adventure uses creative animation and lively music with selections ranging from the early twentieth century to a modern, upbeat sound to motivate your child to learn addition and subtraction strategies.

## LEARNING OBJECTIVES

- Use mental mathematics to add and subtract
- Add and subtract numbers

# Getting Started

Set up the PlayStation™ game console according to the instructions in its Instruction Manual. Make sure the power is off before inserting or removing a compact disc. Insert the *Math on the Move!* disc and close the CD door. Insert the game controllers and turn on the PlayStation game console. Follow the instructions on the television screen to start the game.

- Use the **X button** on the PlayStation controller for clicking.
- At the opening screen choose the mathematics subject your child wants to explore—"Round and Adjust," "Compatible 10s," or "Subtracting by Adding."
- See an exciting music video by clicking **Music Video** on the opening screen.
- The opening screen has two options for each strategy—a video lesson and a corresponding practice session.

- After your child has viewed the lesson, choose **practice** from the opening screen.
- When viewing a lesson or practicing, click the screen to display the video controls. Use the **forward** arrow to skip a problem or the **rewind** arrow to review a problem. If your child wants more time to think about a problem, click **pause**.
- Click the **square** in the center of the controls to stop the game and return to the opening screen.

## "Round and Adjust, Part 1"

This lesson shows how to add two two-digit and two three-digit numbers by increasing one to a tens number and then adjusting the sum.

- Click "Round and Adjust, Part 1" **lesson.**
- Once your child understands the strategy, click the "Round and Adjust, Part 1" **practice.**

## "Round and Adjust, Part 2"

By using a rounding and adjusting mathematics strategy, your child will add three-digit numbers by increasing one to a tens or hundreds number and then adjusting the sum.

- Click the "Round and Adjust, Part 2" **lesson.**
- Once your child understands the strategy, click the "Round and Adjust, Part 2" **practice.**

## "Round and Adjust, Part 3"

After mastering Parts 1 and 2 of "Rounding and Adjusting," your child will learn to add two-digit numbers by decreasing one to a tens number and adjusting the sum.

- Click the "Round and Adjust, Part 3" **lesson.**
- Once your child understands the strategy, click the "Round and Adjust, Part 3" **practice.**

Have your child add up a few prices found in newspaper ads. For example, how much does a $59 tune-up and a $17 oil change cost? Round $59 up to $60 and add $17. That equals $77, then subtract to get the answer $76.

## "Compatible 10s"

In this useful "Compatible 10s" mathematics strategy, your child will use sums of 10 to add a string of numbers.

- Click the "Compatible 10s" **lesson.**
- Once your child understands the strategy, click the "Compatible 10s" **practice.**

## "Subtracting by Adding"

Now, combine your knowledge of addition with a new subtraction strategy. In this lesson, subtraction will be completed by increasing the lesser number until it equals the greater number.

- Click the "Subtracting by Adding" **lesson.**
- Once your child understands the strategy, click the "Subtracting by Adding" **practice.**

Grab a handful of something small that's around the house (e.g., beans, pennies, or paper clips). Give your child a lesser quantity of the item and give yourself a greater quantity. You each count out how many you have. Then have your child say the subtraction sentence and add to find how many more he or she needs to make the amounts equal. For example, if your child has 7 paper clips and you have 15, the subtraction sentence will be 15 - 7 = ? Your child will add 7 + ? = 15. The answer is 8.

# Extending the Learning Experience
# Family Activities

## Shopping Sense

Using clothing ads in a newspaper, go with your child on an imaginary shopping spree. Use an imaginary budget of $200 to "spend" on anything he or she wants. Encourage your child to spend it all without going over. Have your child list what he or she purchased. What was the exact total? Have your child explain the steps used to arrive at the total.

## Address Trivia

Have fun while you practice working with 2-, 3-, and 4-digit numbers. Ask your child to write down your address number. Double that number. Now add 5. Multiply this number by 50. Have your child add his or her age. Then add 365. Now subtract 615. The last 2 digits are your child's age. The other digits are your house number.

## Connect the Square

Can you find at least 10 ways to make 264 by adding 4 connected numbers from this square? Help your child find as many as possible. Hint: The 4 numbers can be connected diagonally, or form a square and L shape.

| | | | |
|---|---|---|---|
| 98 | 11 | 89 | 68 |
| 88 | 69 | 91 | 16 |
| 61 | 86 | 18 | 99 |
| 19 | 98 | 66 | 81 |

WARNING: READ BEFORE USING THE PlayStation™ GAME CONSOLE.
A very small percentage of individuals may experience epileptic seizures when exposed to certain light patterns or flashing lights. Exposure to certain patterns or backgrounds on a television screen or while playing video games, including games played on the PlayStation™ game console, may induce an epileptic seizure in these individuals. Certain conditions may induce previously undetected epileptic symptoms even in persons who have no history of prior seizures or epilepsy. If you, or anyone in your family, has an epileptic condition, consult your physician prior to playing. If you experience any of the following symptoms while playing a video game—dizziness, altered vision, eye or muscle twitches, loss of awareness, disorientation, any involuntary movement, or convulsions—IMMEDIATELY discontinue use and consult your physician before resuming play.

WARNING TO OWNERS OF PROJECTION TELEVISIONS:
Do not connect the PlayStation™ game console to a projection TV without first consulting the user manual for your projection TV, unless it is of the LCD type. Otherwise, it may permanently damage your TV screen.

HANDLING THE PlayStation™ DISC:

- This compact disc is intended for use only with the PlayStation™ game console.
- Do not bend it, crush it, or submerge it in liquids.
- Do not leave it in direct sunlight or near a radiator or other source of heat.
- Be sure to take an occasional rest break during extended play.
- Keep this compact disc clean. Always hold the disc by the edges and keep it in its protective case when not in use. Clean the disc with a lint-free, soft, dry cloth, wiping in straight lines from center to outer edge. Never use solvents or abrasive cleaners.

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