{ [( )] }

2, 4, 6, 8…

Theme Park Points

5th Grade Math Project · Travel & Fun

Grade 5 · Advanced

Name: _____ Date: _____ Class: _____

The Challenge

Your class won a trip to Pi Peaks Theme Park! You need to plan your rides and save money for the trip.

You will make: Theme Park Day Plan

What you will learn

- Write and evaluate expressions with grouping symbols
- Interpret expressions without calculating
- Generate two numerical patterns and compare terms
- Graph ordered pairs from patterns

Materials

- Pencil
- Coordinate grid paper
- Colored pencils

How to do it

1. Part 1: Ride Points
2. Part 2: Bonus Points
3. Part 3: Without Calculating
4. Part 4: Two Savings Plans
5. Part 5: Graph It
6. Check your work and share your theme park day plan.

Part 1: Ride Points

The Roller Coaster earns 6 points and the Water Slide earns 8 points. You ride both, 5 times each.

1. Write an expression for your total points.

2. Evaluate it.

Part 2: Bonus Points

Evaluate the bonus expression: $[6 \times 8 + 5] \times 2$

3. Value:

Part 3: Without Calculating

How does $5 \times (1{,}248 + 367)$ compare with $1{,}248 + 367$?

4. Answer:

Part 4: Two Savings Plans

Plan A: start at $0 and save $4 each week. Plan B: start at $0 and save $12 each week.

Week	Plan A ($)	Plan B ($)
0		
1		
2		
3		
4		
5		

5. List the first 6 terms of each plan.

6. Write the ordered pairs (Plan A, Plan B).

7. How does each Plan B amount compare with Plan A?

Part 5: Graph It

Graph the ordered pairs on a coordinate grid. Label the axes Plan A and Plan B.

8. What do you notice about the points?

⭐ Extension Challenge

Plan C starts at $10 and saves $4 each week. After how many weeks does Plan B have more than Plan C?

How your project will be scored

Category	4 Excellent	3 Good	2 Developing	1 Beginning
Math accuracy	All answers correct	Most answers correct	Some answers correct	Few answers correct
Shows work	Clear work for every step	Work for most steps	Some work shown	Little work shown
Explains thinking	Clear, complete explanations	Mostly clear explanations	Some explanation	Little explanation
Final product	Complete, neat and creative	Complete and neat	Partly complete	Not complete