Sports Stats Showdown

5th Grade Math Project · Sports & Field Day

Grade 5 · Advanced

Name: _____ Date: _____ Class: _____

The Challenge

Our school is holding Field Day, and you are the official statistician! Every result is a decimal, and the medals depend on reading them correctly.

You will make: Field Day Results Board

What you will learn

- Read and write decimals in standard, word and expanded form
- Compare and order decimals to thousandths
- Round decimals to a given place
- Use powers of 10 and exponents

Materials

- Pencil
- Colored pencils or markers
- Poster paper (optional)

How to do it

1. Part 1: Race Times
2. Part 2: Long Jump Scoreboard
3. Part 3: Powers of 10 at the Snack Stand
4. Part 4: Results Board
5. Check your work and share your field day results board.

Part 1: Race Times

The 50-meter dash times (in seconds) are: Ava 13.508, Ben 13.58, Carmen 13.085, Dev 13.805. The fastest time is the least number.

Runner	Time (s)
Ava	13.508
Ben	13.58
Carmen	13.085
Dev	13.805

1. Write the times in order from fastest to slowest (by name).

2. Who wins the gold medal?

3. Write 13.508 in word form.

4. Write 13.508 in expanded form.

Part 2: Long Jump Scoreboard

The winning long jump was 4.385 meters. The scoreboard can only show some digits.

5. Round 4.385 m to the nearest tenth.

6. Round 4.385 m to the nearest hundredth.

7. What is the value of the digit 8 in 4.385?

Part 3: Powers of 10 at the Snack Stand

One bag of popcorn costs $2.45.

8. How much do 1,000 bags cost?

9. Write 1,000 as a power of 10.

10. A banner is 10^4 centimeters long. How many centimeters is that?

Part 4: Results Board

Design a results board for Field Day. Show the medal winners for the dash and the jump, with times and distances written in standard form and in word form.

11. Include at least 4 decimals, each written two ways.

⭐ Extension Challenge

Two runners' times differ by only 0.01 second. Write two possible times between 13.5 and 13.6 seconds that are 0.01 apart and explain who wins.

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