Sports Stats Showdown

Teacher Guide & Answer Keys

Grade 5 · All levels

Overview

Students become the Field Day statisticians. They read and write decimal race times and jump distances, compare and order them to award medals, round results for the scoreboard, and use powers of 10 to scale ticket and snack sales.

Time: 2 class periods · **Product:** Field Day Results Board · **Standards:** 5.NBT.A.1, 5.NBT.A.2, 5.NBT.A.3, 5.NBT.A.4

Suggested pacing

- Day 1: Introduce the challenge, read the scenario together, and work Parts 1–2 in pairs.
- Day 2: Finish the remaining parts and create the final product.
- Wrap-up: Share products and reflect on strategies.

Levels

- **Remedial:** smaller numbers, fewer steps, more structure.
- **Standard:** grade-level numbers and the full set of tasks.
- **Advanced:** harder numbers, extra reasoning and multi-step questions.

All three levels practice the same learning goals, so the class can share and compare work.

Rubric

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

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Answer key · Remedial KEY

Part 1: Race Times

1. Write the times in order from fastest to slowest (by name).
Ben, Carmen, Ava, Dev

2. Who wins the gold medal?
Ben

3. Write 14.6 in word form.
fourteen and six tenths

4. Write 14.6 in expanded form.
$1 \times 10 + 4 \times 1 + 6 \times \frac{1}{10}$

Part 2: Long Jump Scoreboard

5. Round 3.47 m to the nearest tenth.
3.5 m

6. Round 3.47 m to the nearest hundredth.
3.47 m

7. What is the value of the digit 4 in 3.47?
0.4

Part 3: Powers of 10 at the Snack Stand

8. How much do 10 bags cost?
$40.00

9. Write 10 as a power of 10.
10^1

10. A banner is 10^2 centimeters long. How many centimeters is that?
100 cm

Part 4: Results Board

11. Include at least 4 decimals, each written two ways.
Answers vary; check that standard and word forms match.

Extension

Example: 13.54 and 13.55; the runner with 13.54 wins because it is less.

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Answer key · Standard KEY

Part 1: Race Times

1. Write the times in order from fastest to slowest (by name).
Carmen, Ava, Ben, Dev

2. Who wins the gold medal?
Carmen

3. Write 13.58 in word form.
thirteen and fifty-eight hundredths

4. Write 13.58 in expanded form.
$1 \times 10 + 3 \times 1 + 5 \times \frac{1}{10} + 8 \times \frac{1}{100}$

Part 2: Long Jump Scoreboard

5. Round 4.385 m to the nearest tenth.
4.4 m

6. Round 4.385 m to the nearest hundredth.
4.39 m

7. What is the value of the digit 8 in 4.385?
0.08

Part 3: Powers of 10 at the Snack Stand

8. How much do 100 bags cost?
$375.00

9. Write 100 as a power of 10.
10^2

10. A banner is 10^3 centimeters long. How many centimeters is that?
1,000 cm

Part 4: Results Board

11. Include at least 4 decimals, each written two ways.
Answers vary; check that standard and word forms match.

Extension

Example: 13.54 and 13.55; the runner with 13.54 wins because it is less.

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Answer key · Advanced KEY

Part 1: Race Times

1. Write the times in order from fastest to slowest (by name).
Carmen, Ava, Ben, Dev

2. Who wins the gold medal?
Carmen

3. Write 13.508 in word form.
thirteen and five hundred eight thousandths

4. Write 13.508 in expanded form.
$1 \times 10 + 3 \times 1 + 5 \times \frac{1}{10} + 8 \times \frac{1}{1000}$

Part 2: Long Jump Scoreboard

5. Round 4.385 m to the nearest tenth.
4.4 m

6. Round 4.385 m to the nearest hundredth.
4.39 m

7. What is the value of the digit 8 in 4.385?
0.08

Part 3: Powers of 10 at the Snack Stand

8. How much do 1,000 bags cost?
$2,450.00

9. Write 1,000 as a power of 10.
10^3

10. A banner is 10^4 centimeters long. How many centimeters is that?
10,000 cm

Part 4: Results Board

11. Include at least 4 decimals, each written two ways.
Answers vary; check that standard and word forms match.

Extension

Example: 13.54 and 13.55; the runner with 13.54 wins because it is less.

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Worked teacher example (Standard, Part 1)

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

Carmen, Ava, Ben, Dev

Who wins the gold medal?

Carmen

Write 13.58 in word form.

thirteen and fifty-eight hundredths

Write 13.58 in expanded form.

$$1 \times 10 + 3 \times 1 + 5 \times \frac{1}{10} + 8 \times \frac{1}{100}$$

Model the first part aloud: read the situation, name the operation, estimate, solve, and check. Then let partners try Part 2.

Look for

- Students use correct notation and units in every answer.
- Students explain why an answer is reasonable (estimates, benchmarks, pictures).
- Final products show the math clearly, not just the answers.