## III Data & Graph Sense Quest

Name:	Grade: 4	Date:
Read, compare, and reason w	ith bar graphs, p for multi-step	ictographs, line plots, and tables. Show work differences.
Part 1 · Read a Bar G	raph BAR	
Favorite Sports (Students) Soccer: 12   Basketball: 9   Swimming:	6   Tennis: 3   Track:	10
1. Most popular sport = _		2. Least popular sport =
3. Difference soccer & sv	vimming =	4. Total track + tennis =
5. How many more chose to basketball?	track than	6. Total students shown =
Part 2 · Pictograph (★	r = 2 Books)	PICTO
Books Read (Week) Mia: ★★★☆ (stars=4.5) · Leo: ★★	<b>★★ (4) • Asha: ★★★</b>	(3) • Ben: ★★★☆ (4.5)
7. A half star =	_ book(s)	8. Mia read books
9. Ben and Leo together = books	:	10. Who read 6 books?
11. Greatest readers tied names &		12. How many more than Asha did Mia read? books

Lengths: 3: XX | 4: XXXX | 5: XXXXX | 6: XX

Part 4 · Tables & Multi-Step TABLE

Snack Sales (Boxes): Granola 18 | Crackers 24 | Fruit Cups 16 | Popcorn 22

Part 5 · Data Operations OPERATE

29. New average (exact /10) = /10

30. Median of original scores =

Median: order numbers and pick middle. Mean: total ÷ number of values.

## Part 6 · Word Problems & Reflection THINK

31. Track vs soccer from Part 1: soccer 12, track 10. Fraction of all (Part 1 total) that chose track = \_\_\_\_\_

32. In the pictograph, total books read by all = \_\_\_\_\_

33. If each popcorn box (Part 4) earns \$3, money from popcorn = \$\_\_\_\_\_

34. If granola increases by 6 boxes, does it pass crackers? (Yes/No) \_\_\_\_\_

35. Which representation (bar / pictograph / line plot / table) you found quickest to read? \_\_\_\_\_

36. Reflection: One data skill to practice more.

Reflection (#36) open—accept any sensible response.

## Answer Key

- 1. Soccer
- 2. Tennis
- 3.6
- 4. 13
- 5. 1
- 6.40
- 7.1
- 8. 9
- 9.13.5
- 10. Asha (6 books)
- 11. Mia & Ben
- 12. 3 (9-6)
- 13.13
- 14. 5
- 15. 3
- 16. 9
- 17. 5/13
- 18. Equal
- 19. Crackers
- 20. Fruit Cups
- 21.80
- 22.8
- 23. 40
- 24. 21
- 25. 4
- 26, 40
- 27. 8.0
- 28.50
- 29.50/6
- 30.8
- 31. 10/40 = 1/4
- 32.33
- 33.66
- 34. No (24 vs 24 tie)
- 35. Varies
- 36. Varies

#9 pictograph: Ben 9, Leo 8  $\rightarrow$  17; #17 fraction simplified allowed. #29 50/6 may also be written 25/3 or 8 1/3. Accept equivalent simplified fractions. Reflection items vary.