LESSON MAKER PRO

Read the Data

Use graph scales to compare totals and explain what the data show.

GRADE 4 · 4.DS.A.1.b

4.DS.A.1.b "Summarize data presented in scaled data visualizations (e.g. bar graphs, line plots) and draw conclusions about the data."

NAME _____ DATE _____

THE BIG IDEA

A graph's scale tells you what each symbol or tick mark stands for. Use the scale to find totals, then add or subtract to compare them. Check what the question asks before you decide what the data show.

WORKED EXAMPLE

How many more seed packets did Mint have than Asters?

Seed Packets

Asters	★ ★
Mint	★ ★ ★

Key: ★ ★ = 7 packets

1. Asters: 2 × 7 = 14 packets.
2. Mint: 3 × 7 = 21 packets.
3. Compare: 21 - 14 = 7 packets.

Answer: Mint had 7 more seed packets.

PRACTICE 6 problems

1 How many badges did Pine and Cedar earn in all?

Badges Earned

Pine	★ ★ ★
Cedar	★ ★ ★ ★ ★

Key: ★ ★ = 4 badges

ANSWER _____

2 How many more votes did Space receive than Ocean?

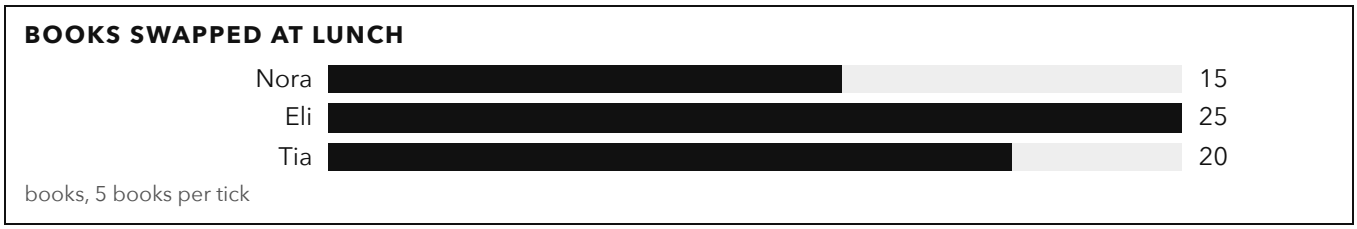
Favorite Club Theme

Space	● ● ● ●
Ocean	● ●
Robots	● ● ●

Key: ● ● = 6 votes

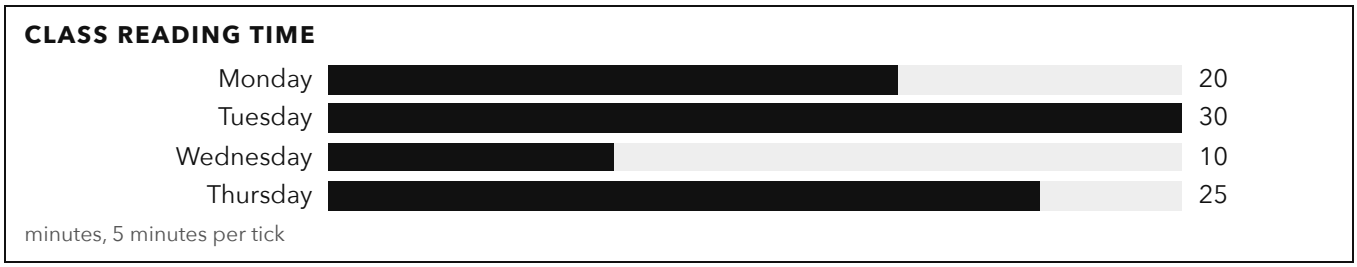
ANSWER _____

3 Who swapped the most books? How many more books did that student swap than Nora?



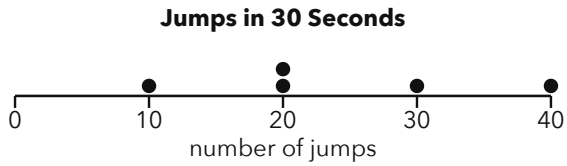
ANSWER _____

4 How many minutes were spent reading on Monday and Thursday altogether?



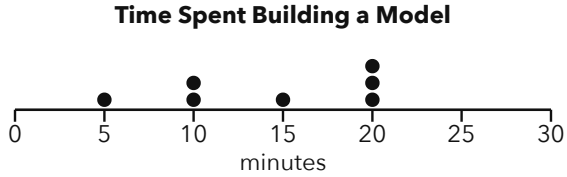
ANSWER _____

5 What jump count occurred most often? How many times did it occur?



ANSWER _____

6 How many builds took at least 15 minutes?



ANSWER _____

APPLY IT Show your work

1 At the school fair, classes earned prize tokens. How many more tokens did Class B earn than Classes A and C combined?

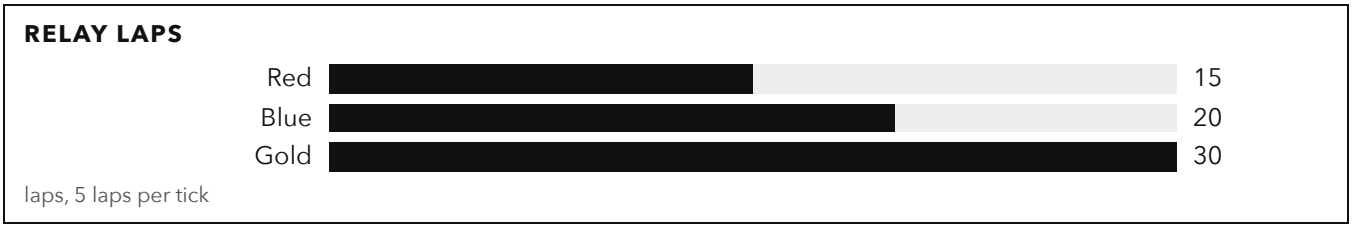
Prize Tokens

Class A	◆ ◆
Class B	◆ ◆ ◆ ◆ ◆
Class C	◆

Key: ◆ ◆ = 8 tokens

ANSWER _____

2 At game day, teams counted their relay laps. Together, did Red and Blue complete more laps than Gold? How many more or fewer?



ANSWER _____

CHALLENGE One step up

A game club will give a prize to two teams whose combined ticket total is closest to 50 without going over. A half symbol is worth half a full symbol. Which two teams should get the prize? How many tickets did they earn together? Explain how you know.

Game Club Tickets

Blue	■ ■ ▮
Green	■ ■ ■
Purple	■ ▮

Key: ■ ■ = 10 tickets

WORK SPACE AND ANSWER

ANSWER KEY

Read the Data

GRADE 4 · 4.DS.A.1.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	How many badges did Pine and Cedar earn in all?	**32 badges**
2	How many more votes did Space receive than Ocean?	**12 votes**
3	Who swapped the most books? How many more books did that student swap than Nora?	**Eli; 10 more books than Nora**
4	How many minutes were spent reading on Monday and Thursday altogether?	**45 minutes**
5	What jump count occurred most often? How many times did it occur?	**20 jumps; 2 times**
6	How many builds took at least 15 minutes?	**4 builds**

PART 2 · APPLY IT

1. **16 more tokens** Class B earned 40 tokens. Classes A and C earned 16 + 8 = 24 tokens, so the difference is 40 - 24 = 16.
2. **Yes. Red and Blue completed 5 more laps than Gold.** Red and Blue completed 15 + 20 = 35 laps together. That is 35 - 30 = 5 more laps than Gold.

CHALLENGE

Green and Purple earned 45 tickets together. Green earned 30 and Purple earned 15. Blue and Purple earned 40, while Blue and Green earned 55, which is over 50.

Accept equivalent wording for comparisons. In the challenge, a correct explanation can compare the eligible pairs without listing the pair that exceeds 50.