LESSON MAKER PRO

Data Detective Day

Use observations and displays to answer everyday questions.

GRADE 5 · 5.MDR.7.2

5.MDR.7.2 "Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to solve problems relevant to everyday life"

NAME _____ DATE _____

ASK, READ, SOLVE

Start with a question that can be answered by the information you have. Read the numbers carefully, then add, subtract, compare, or find a total to answer the question.

WORKED EXAMPLE

At a club meeting, 16 students chose drawing and 10 students chose coding. How many more students chose drawing?

1. Find the two amounts: 16 and 10.
2. Subtract to compare: 16 - 10 = 6.
3. Drawing has 6 more students than coding.

Answer: 6 students

PRACTICE 6 problems

1 A nature club observed 13 butterflies and 8 bees. How many insects did the club observe altogether?

ANSWER _____

2 In a class poll, 19 students chose volleyball and 12 chose tennis. How many more students chose volleyball?

ANSWER _____

3 A teacher placed 28 markers equally into 4 supply cups. How many markers were in each cup?

ANSWER _____

4 The measured plant heights were 2 cm, 5 cm, and 9 cm. Write one question that this information can answer. Then answer your question.

ANSWER _____

5 A pet sitter counted 11 cats on Monday, 3 cats on Tuesday, and 11 cats on Wednesday. What number occurred most often?

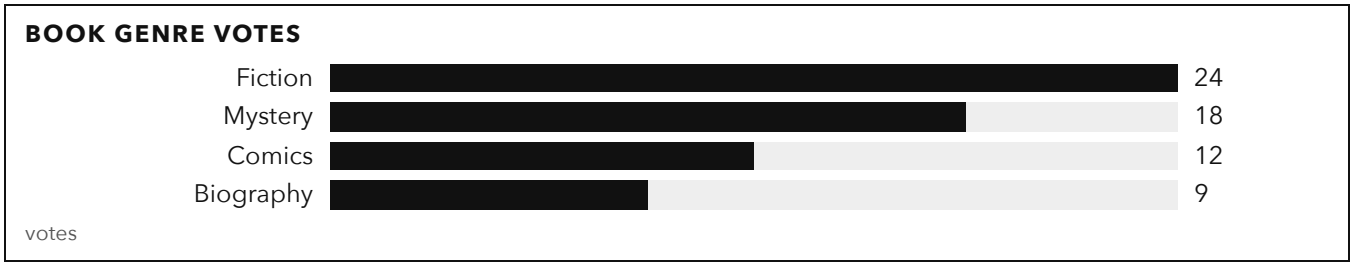
ANSWER _____

6 At a recycling station, volunteers counted 18 bottles in one bin and 13 bottles in another bin. How many bottles were counted altogether?

ANSWER _____

APPLY IT Show your work

1 Use the Book Genre Votes graph. How many students voted for fiction or mystery altogether?



ANSWER _____

2 During three skateboard practice runs, Kai recorded times of 34 seconds, 29 seconds, and 31 seconds. He asks, "How many seconds faster was my quickest run than my slowest run?" Answer Kai's question.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Use the Book Genre Votes graph. A student says, "Fiction and mystery have 20 more votes than comics and biography." Is the student correct? Explain by finding both combined totals and their difference.

WORK SPACE AND ANSWER

ANSWER KEY

Data Detective Day

GRADE 5 · 5.MDR.7.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A nature club observed 13 butterflies and 8 bees. How many insects did the club observe altogether?	**21 insects**
2	In a class poll, 19 students chose volleyball and 12 chose tennis. How many more students chose volleyball?	**7 students**
3	A teacher placed 28 markers equally into 4 supply cups. How many markers were in each cup?	**7 markers**
4	The measured plant heights were 2 cm, 5 cm, and 9 cm. Write one question that this information can answer. Then answer your question.	**Which plant is tallest? The 9 cm plant is tallest.**
5	A pet sitter counted 11 cats on Monday, 3 cats on Tuesday, and 11 cats on Wednesday. What number occurred most often?	**11**
6	At a recycling station, volunteers counted 18 bottles in one bin and 13 bottles in another bin. How many bottles were counted altogether?	**31 bottles**

PART 2 · APPLY IT

1. **42 students** Add the fiction votes and mystery votes: 24 + 18 = 42.
2. **5 seconds** The quickest time is 29 seconds and the slowest time is 34 seconds. Subtract: 34 - 29 = 5.

CHALLENGE

No. Fiction and mystery have 42 votes, and comics and biography have 21 votes. The difference is 21 votes, not 20 votes.

Accept any clear, answerable question about the listed plant heights with a correct answer. For the challenge, require both combined totals and the correct difference.