

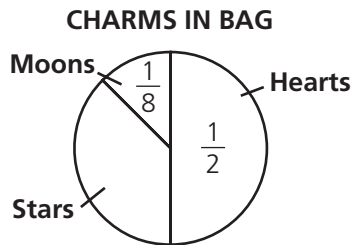
# Contents

Lesson 1	Collecting Data	4
Lesson 2	Recording Data	6
Lesson 3	Statistics: Mode and Range	8
Lesson 4	Tables	10
Lesson 5	Tally Tables	12
Lesson 6	Frequency Tables	14
Lesson 7	Pictographs	16
Lesson 8	More Pictographs	18
Lesson 9	Making Pictographs	20
Lesson 10	Bar Graphs	22
Lesson 11	More Bar Graphs	24
Lesson 12	Making Bar Graphs	26
Lesson 13	Line Graphs	28
Lesson 14	More Line Graphs	30
Lesson 15	Making Line Graphs	32
Lesson 16	Line Plots	34
Lesson 17	More Line Plots	36
Lesson 18	Making Line Plots	38
Lesson 19	Circle Graphs	40
Lesson 20	Venn Diagrams	42
Lesson 21	Outcomes and Sample Space	44
Lesson 22	Probability	46
	How to Answer Constructed Response Questions	48

# LESSON 19 Circle Graphs

A **circle graph** shows the parts of a whole. Each section represents a part of the entire amount.

A bag contains three kinds of charms. What fraction of the charms are stars?



Add the given fractions:

$$\frac{1}{2} + \frac{1}{8} = \frac{4}{8} + \frac{1}{8} = \frac{5}{8}$$

Then subtract from 1:

$$1 - \frac{5}{8} = \frac{8}{8} - \frac{5}{8} = \frac{3}{8}$$

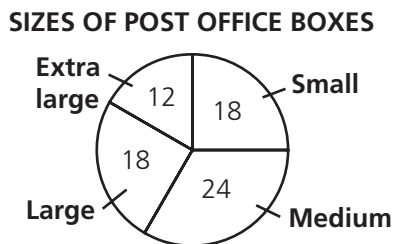
So  $\frac{3}{8}$  of the charms are stars.

A circle graph may be labeled using whole numbers or fractions.

If the sections of a circle graph are labeled with fractions, they should add to 1.

**Read each problem. Circle the letter of the best answer.**

Use this circle graph to answer questions 1–4.



**1** How many more medium post office boxes are there than small post office boxes?

- A** 6
- B** 8
- C** 12
- D** 18

The circle graph shows 24 medium and 18 small post office boxes. Subtract to find the difference:  $24 - 18 = 6$ . The correct answer is A.

**2** How many total post office boxes are there?

- A** 48
- B** 64
- C** 72
- D** 80

**3** What fraction of the post office boxes are extra large?

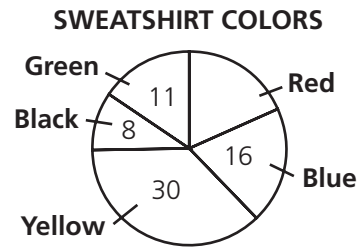
- A**  $\frac{1}{12}$
- B**  $\frac{1}{6}$
- C**  $\frac{1}{4}$
- D**  $\frac{1}{3}$

**4** Each large post office box costs \$200 a year to rent. How much money does the post office make on the rental of all large post office boxes each year?

- A** \$1,200
- B** \$2,400
- C** \$3,600
- D** \$4,800

Read each problem. Write your answers.

- 5 A sporting goods store has 80 sweatshirts on sale. The colors of the sweatshirts are shown in the circle graph at the right.



- A How many of these sweatshirts are red?

**Answer:** \_\_\_\_\_

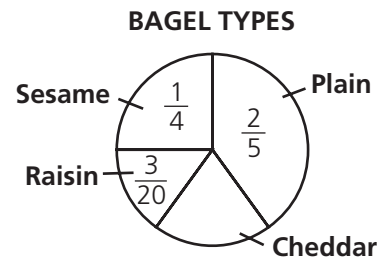
- B Explain how you found your answer.

---

---

---

- 6 Marla bought some bagels for a party. The types of bagels are shown in the circle graph at the right.



- A What fraction of the bagels are cheddar?

**Show your work.**

**Answer:** \_\_\_\_\_

- B Explain how you found your answer.

---

---

---

---