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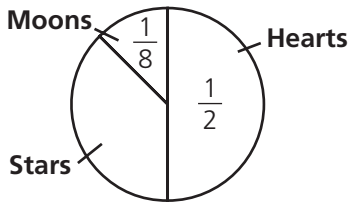
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LESSON 19 Circle Graphs

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?

CHARMS IN BAG



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.

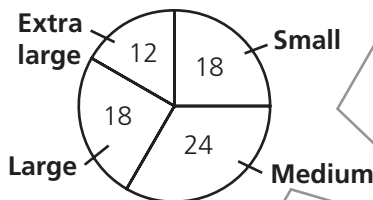
A circle graph may be labeled using whole numbers or fractions.

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.

SIZES OF POST OFFICE BOXES



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

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

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** $\frac{1}{3}$

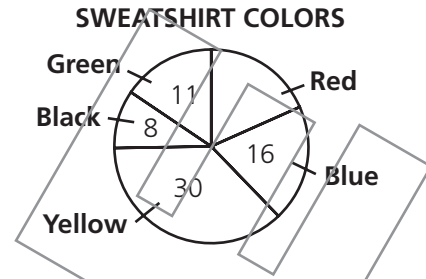
4 Each large post office box costs \$200 a year to rent. How much money does the post office make on the rental of all large post office boxes each year?

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

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.

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.

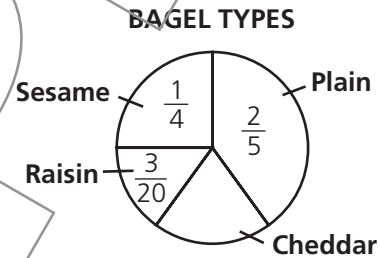


A How many of these sweatshirts are red?

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.

