Challenge Problems

7.6

Set 1

1 Julie had 60 jelly beans. She ate nine of them. What percent of the jelly beans are left?

2 Explain how to use mental math to answer the following. Fifty percent of a number is 16. What is 10 percent of the number?

3 Which problem will have a percent greater than 100? Explain how you know without finding the percents.

What percent of 20 is 25?
What percent of 25 is 20?

Possible Answers

Set 1

1. First find how many jelly beans are left: 60 – 9 = 51. Then, find what percent of 60 is 51. Divide 51 by 60 and change the quotient to a percent. Eighty-five percent of the jelly beans are left.

2. Fifty percent is one-half. If half of a number is 16, then the whole number is 32. To find 10% of 32, move the decimal point one place to the left. Ten percent of the number is 3.2.

3. The percent will be greater than 100 when the part is greater than the whole. This happens in the first problem. Twenty is the whole and 25 is the part.