

Unit 6 Lesson 6: More and Less than 1%

1 Number Talk: What Percentage? (Warm up)

Student Task Statement

Determine the percentage mentally.

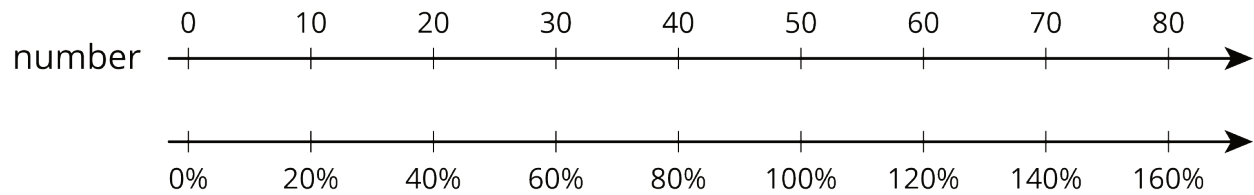
10 is what percentage of 50?

5 is what percentage of 50?

1 is what percentage of 50?

17 is what percentage of 50?

Activity Synthesis



2 Waiting Tables

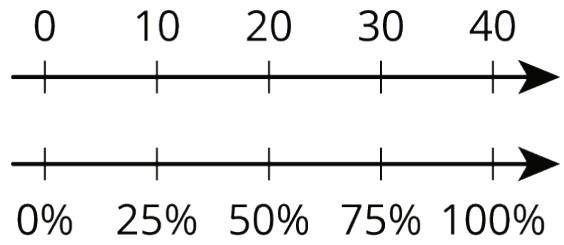
Student Task Statement

During one waiter's shift, he delivered 13 appetizers, 17 entrées, and 10 desserts.

1. What percentage of the dishes he delivered were:
 - a. desserts?
 - b. appetizers?
 - c. entrées?
2. What do your percentages add up to?

Activity Synthesis

number of dishes delivered



3 Fractions of a Percent

Student Task Statement

1. Find each percentage of 60. What do you notice about your answers?

30% of 60

3% of 60

0.3% of 60

0.03% of 60

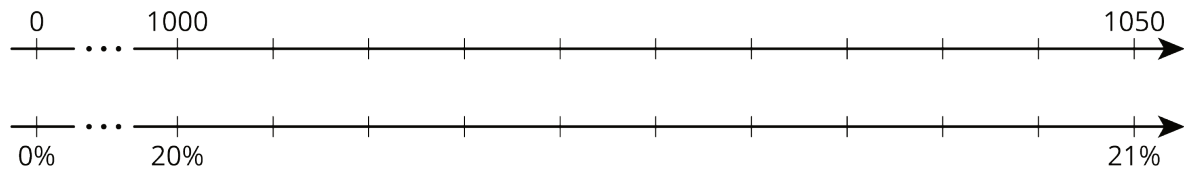
2. 20% of 5,000 is 1,000 and 21% of 5,000 is 1,050. Find each percentage of 5,000 and be prepared to explain your reasoning. If you get stuck, consider using the double number line diagram.

a. 1% of 5,000

b. 0.1% of 5,000

c. 20.1% of 5,000

d. 20.4% of 5,000



3. 15% of 80 is 12 and 16% of 80 is 12.8. Find each percentage of 80 and be prepared to explain your reasoning.

a. 15.1% of 80

b. 15.7% of 80

4 Population Growth (Optional)

Student Task Statement

1. The population of City A was approximately 243,000 people, and it increased by 8% in one year. What was the new population?
2. The population of city B was approximately 7,150,000, and it increased by 0.8% in one year. What was the new population?