Unit 3 Lesson 16: Finding the Percentage

1 True or False: Percentages (Warm up)

Student Task Statement

Is each statement true or false? Be prepared to explain your reasoning.

- 1. 25% of 512 is equal to $\frac{1}{4} \cdot 500$.
- 2. 90% of 133 is equal to (0.9) 133.
- 3. 30% of 44 is equal to 3% of 440.
- 4. The percentage 21 is of 28 is equal to the percentage 30 is of 40.

2 Jumping Rope

Student Task Statement

A school held a jump-roping contest. Diego jumped rope for 20 minutes.

- 1. Jada jumped rope for 15 minutes. What percentage of Diego's time is that?
- 2. Lin jumped rope for 24 minutes. What percentage of Diego's time is that?
- 3. Noah jumped rope for 9 minutes. What percentage of Diego's time is that?
- 4. Record your answers in this table. Write the quotients in the last column as decimals.

	time (minutes)	percentage	time ÷ 20
Diego	20	100	$\frac{20}{20} = 1$
Jada	15		$\frac{15}{20} =$
Lin	24		$\frac{24}{20} =$
Noah	9		$\frac{9}{20} =$

5. What do you notice about the numbers in the last two columns of the table?

3 Restaurant Capacity

Student Task Statement

A restaurant has a sign by the front door that says, "Maximum occupancy: 75 people." Answer each question and explain or show your reasoning.

- 1. What percentage of its capacity is 9 people?
- 2. What percentage of its capacity is 51 people?
- 3. What percentage of its capacity is 84 people?