Unit 3 Lesson 15: Finding This Percent of That

1 Number Talk: Decimals (Warm up)

Student Task Statement

Find the value of each expression mentally.

$(0.23) \cdot 100$

$50 \div 100$

$145 \cdot \frac{1}{100}$

$7 \div 100$

2 Audience Size

Student Task Statement

A school held several evening activities last month—a music concert, a basketball game, a drama play, and literacy night. The music concert was attended by 250 people. How many people came to each of the other activities?

1. Attendance at a basketball game was 30% of attendance at the concert.

2. Attendance at the drama play was 140% of attendance at the concert.

3. Attendance at literacy night was 44% of attendance at the concert.
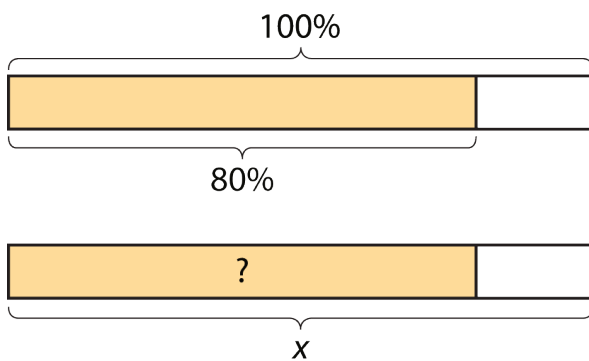
3 Everything is On Sale

Student Task Statement

During a sale, every item in a store is 80% of its regular price.

1. If the regular price of a T-shirt is $10, what is its sale price?

2. The regular prices of five items are shown here. Find the sale price of each item.

	item 1	item 2	item 3	item 4	item 5
regular price	$1	$4	$10	$55	$120
sale price					

3. You found 80% of many values. Was there a process you repeated over and over to find the sale prices? If so, describe it.

100%

80%

x

4. Select **all** of the expressions that could be used to find 80% of x. Be prepared to explain your reasoning.

$\frac{8}{100} \cdot x$ $\frac{8}{10} \cdot x$ $\frac{8}{5} \cdot x$ $80 \cdot x$ $(0.8) \cdot x$

$\frac{80}{100} \cdot x$ $\frac{4}{10} \cdot x$ $\frac{4}{5} \cdot x$ $8 \cdot x$ $(0.08) \cdot x$