## Unit 9 Lesson 8: Solve Problems with Multiplication and Division

### WU Number Talk: Divide by 8 (Warm up)

#### Student Task Statement

Find the value of each expression mentally.

* $848÷8$
* $4,​848÷8$
* $4,​852÷8$
* $5,​848÷8$

### 1 Two Truths and a Lie, or Two Lies and a Truth?

#### Student Task Statement

Here are three situations. Which ones are true? Which ones are not true?

Show how you know.



* Situation A: A high-rise building has 53 stories. The first floor is 17 feet tall, but all other stories are each 11 feet tall. The building is 589 feet tall.
* Situation B: A window washer has 600 seconds to wash 17 windows of a building. It takes 54 seconds to wash each window. The washer will finish washing all the windows and have 11 seconds to spare.
* Situation C: Eleven students set a goal to raise at least $600 for charity. Each student raised $17 each day. After 3 days of fundraising, the group will still be short by $54.

### 2 Buses for a Field Trip

#### Student Task Statement

A school is taking everyone on a field trip. It needs buses to transport 375 people.

Bus Company A has small buses with 27 seats in each.

Bus Company B has large buses with 48 seats in each.



1. What is the smallest number of buses that will be needed if the school goes with:
	* Bus Company A? Show your reasoning.
	* Bus Company B? Show your reasoning.
2. Which bus company should the school choose? Explain your reasoning.
3. Bus Company C has large buses that can take up to 72 passengers.
* Diego says, “If the school chooses Bus Company C, it will need only 6 buses, but the buses will have more empty seats.”
* Do you agree? Explain your reasoning.



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