

**Using the Whiteboard**

- Read the direction line and discuss the problem with students.
- Ask a volunteer to tap **Answer** to reveal the answer.
- Tap the **Action Arrow**. Read the direction line and discuss the problem with students.
- Invite a volunteer to tap **Answer** to reveal the answer.
- Tap the **Try This** button. Discuss the problem with students.
- Ask a volunteer to write the answers using the **Pen** with class input.
- Tap **Math Talk** to reveal a discussion question.

Teaching the Math

Review other ways students can interpret the quotient and the remainder in a real-world situation.

Ask: What information do you know? **Ben can lead tours of no more than 7 people. There are 80 people who want a tour.**

Ask: What do you need to find? **the number of tours Ben will give**

Ask: How is this question different from the one on the last page? **Possible answer: in this question, I'm finding how many groups there will be if all 80 people get a tour, not just the number of groups of exactly 7 people.**

Ask: Do you use the remainder in the answer to this problem? Explain. **Yes, I include the remainder as another group, so the answer is 12 groups.**

Discuss the **Try This** problem and how to interpret the quotient and the remainder.

Ask: What are you asked to find? **the number of vans that are needed for 31 students if each van can hold 9 passengers**

Check to be sure students have placed 31 counters in the top box and that they drag the same number of counters into each of the 9 boxes.

Ask: What does the quotient represent? **the number of vans that will hold exactly 9 passengers**

Ask: Can only 3 vans be used to drive the 31 students? Explain. **No; possible explanation: 1 more van is needed to carry the 4 leftover students.**

Use **Math Talk** to focus on students' understanding of why writing the remainder as a fraction does not make sense in this situation.

Answer Key

12

3

Try This

$$31 \div 9 = 3 \text{ r}4$$

Since there are **4** students left over, **4** vans are needed to carry 31 students.

Math Talk

Possible explanation: you cannot use the remainder as a fraction because you cannot use a fraction of a van.