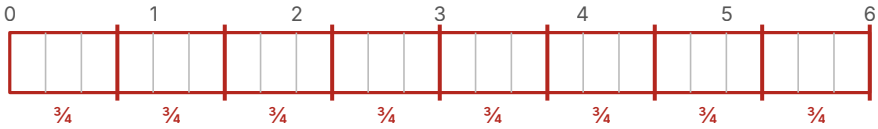
Dividing with Fractions

ANSWER KEY • Amplify Alignment: Grade 6 Accelerated, Unit 3, Lesson 1

1. A bakery has 6 pounds of cookie dough. Each tray of cookies uses $\frac{3}{4}$ pound of dough. How many trays of cookies can the bakery make?

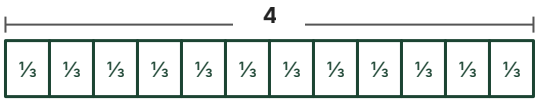
a Draw a tape diagram to model this situation.



b Write a division expression that represents this situation. **$6 \div \frac{3}{4}$**

c How many trays of cookies can the bakery make? **8 trays**

2. Use the tape diagram shown.



a Write a multiplication equation that the diagram could represent. **$12 \cdot \frac{1}{3} = 4$**

b Write a division equation that the diagram could represent. **$4 \div \frac{1}{3} = 12$**

3. The town library is open for 9 hours each day. Each volunteer shift is $1\frac{1}{2}$ hours long. How many volunteer shifts are there each day?

$9 \div 1\frac{1}{2} = 6$ shifts

4. Lila fills bowls with rice. She puts $\frac{3}{4}$ cup of rice in each bowl and uses 6 cups in all.

- Ben says, "I can use the equation $6 \cdot ? = \frac{3}{4}$ to find how many bowls she filled."
- Ava says, "I can use the equation $6 \div \frac{3}{4} = ?$ to find how many bowls she filled."

Who is correct? Circle one. **Ben** **(Ava)** **Both** **Neither**

Ava. The question is "How many $\frac{3}{4}$s are in 6?" That is $6 \div \frac{3}{4}$ (or $? \cdot \frac{3}{4} = 6$). Ben's equation asks what times 6 makes $\frac{3}{4}$. Lila filled 8 bowls.

Problems 5–6: A pancake recipe calls for 8 cups of milk. Two friends use different-sized measuring cups. How many scoops does each friend need?

5. Rosa: $\frac{1}{2}$-cup scoop **16 scoops**

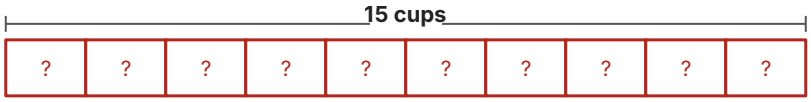
6. Kai: 2-cup scoop **4 scoops**

7. Jon poured 15 cups of soup into 10 jars. Each jar has the same amount of soup.

a Write a multiplication equation. **$10 \cdot ? = 15$**

b Write a division equation. **$15 \div 10 = ?$**

c Draw a diagram to represent this situation.



d How much soup is in each jar? **$1\frac{1}{2}$ cups**