Dividing Fractions in Context

Fractions

Name: _____ Date: _____ Grade 6

Problems 1–4: Calculate the value of each expression. Draw a diagram if it helps with your thinking.

1. $6 \div \frac{3}{4}$ _____

2. $2\frac{1}{2} \div \frac{5}{6}$ _____

3. $\frac{7}{2} \div 1\frac{1}{6}$ _____

4. $3\frac{1}{3} \div \frac{5}{9}$ _____

Problems 5–6: Ella picked $2\frac{1}{2}$ cups of peaches, which is enough for $\frac{5}{6}$ of a peach pie.

5. **How many cups of peaches does Ella need for 1 whole pie? Show or explain your thinking.**

6. **How many pies can Ella make with $7\frac{1}{2}$ cups of peaches? Show or explain your thinking.**

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continued

7. **One batch of salsa uses $1\frac{1}{4}$ pounds of tomatoes. Luis has 4 pounds of tomatoes. He says he can make $3\frac{1}{5}$ batches of salsa. Is Luis correct? Explain your thinking.**

8. **After charging for $1\frac{1}{2}$ hours, a tablet is at $\frac{3}{4}$ of its full battery. How long will it take to charge the tablet completely? Show or explain your thinking.**

9. **Grace has $4\frac{1}{2}$ cups of juice. Each serving is $\frac{3}{4}$ cup. How many servings does she have?**

10. **Write a story problem that could be solved by calculating $3 \div \frac{1}{2}$. Then solve it.**