

Solution Check Answer Key

1. True
2. True
3. True
4. False. Dividing by $\frac{1}{2}$ means counting halves in 3. Correct answer: 6 pieces.
5. True
6. True
7. False. Use a common denominator: $\frac{1}{3} + \frac{1}{6} = \frac{2}{6} + \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$ gallon.
8. True

Teacher's Guide

- Quick implementation tips
 - Encourage students to check both the operation and the computation.
 - Have students justify every "True" or "False" decision with a brief explanation.
 - Remind students to reread the question to be sure the final answer matches what was asked.
- Differentiation strategies
 - Allow students to use fraction strips or number lines to verify answers.
 - Pair students to discuss each completed solution before deciding.
 - Ask advanced students to identify whether the error is a computation mistake or a reasoning mistake.
- Engagement ideas
 - Have students act as "math judges" and defend their verdicts.
 - Let students create one true and one false completed solution for classmates to evaluate.
- Extension activities
 - Have students rewrite each false solution with correct work shown step by step.
 - Ask students to explain why the true solutions are reasonable using estimation or visual models.