

Percent Detectives Answer Key

1. Incorrect. Divided incorrectly. Correct answer: 20%
2. Incorrect. Used the wrong percent. Correct answer: 20%
3. Correct. 75%
4. Incorrect. $15 \div 50 = 0.30$. Correct answer: 30%
5. Correct. 80%
6. Correct. 60%
7. Correct. 62.5%
8. Incorrect. Used the part as the percent instead of calculating. Correct answer: 32.5%
9. Correct. 70%
10. Incorrect. $16 \div 64 = 0.25$. Correct answer: 25%

Teacher's Guide

- Quick implementation tips
 - o Review the formula: Percent = (Part $\div$ Whole) $\times$ 100%.
 - o Encourage students to verify each answer before deciding if it is correct.
 - o Discuss common calculation errors after the activity.
- Differentiation strategies
 - o Provide a calculator for students who need computation support.
 - o Have students work with a partner to justify each decision.
 - o Challenge advanced students to describe the mistake using mathematical vocabulary.
- Engagement ideas
 - o Let students act as "math detectives" and explain how they found each error.
 - o Ask volunteers to share different ways to check an answer quickly.
- Extension activities
 - o Have students create two incorrect examples for a classmate to correct.
 - o Ask students to rewrite each incorrect solution with the correct work shown.
 - o Have students identify which mistakes are calculation errors and which are conceptual errors.