

Conversion Mistakes Answer Key

1. Correct: $0.6 = 60\%$ / Reason: The decimal should be multiplied by 100.
2. Correct: $45\% = 0.45$ / Reason: The percent should be divided by 100.
3. Correct: $1.2 = 120\%$ / Reason: A decimal greater than 1 becomes a percent greater than 100%.
4. Correct: $150\% = 1.5$ / Reason: Move the decimal point two places left.
5. Correct: $0.08 = 8\%$ / Reason: Multiply by 100, not 1,000.
6. Correct: $2.5 = 250\%$ / Reason: Multiply the decimal by 100.
7. Correct: $7.5\% = 0.075$ / Reason: Divide the percent by 100.
8. Correct: $0.375 = 37.5\%$ / Reason: Multiply the decimal by 100.

Teacher's Guide

- Quick implementation tips
 - o Remind students to check whether they are converting from a decimal to a percent or from a percent to a decimal before solving.
 - o Encourage students to explain the mistake in one short sentence.
 - o Review that decimals greater than 1 correspond to percents greater than 100%.
- Differentiation strategies
 - o Model one example together before students work independently.
 - o Allow students to use a place value chart or conversion rule card.
 - o Challenge advanced students to create an incorrect conversion for a classmate to fix.
- Engagement ideas
 - o Have students work as "math detectives" and identify the error before correcting it.
 - o Let partners compare explanations and decide which is the clearest.
- Extension activities
 - o Ask students to write two correct decimal-percent conversion pairs of their own.
 - o Have students sort the corrected answers into conversions less than 100% and greater than 100%.