

# Percent Error | Word Problems

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Read each problem and calculate the percent error. Round your answer to the nearest tenth.

- 1) Gabrielle calculated the volume of the cube as  $125 \text{ m}^3$ . The actual volume of the cube was  $184 \text{ m}^3$ . What was the percent error in Gabrielle's calculation?

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- 2) Fiona uses a thermometer to measure the boiling point of methanol and finds it to be 70 degrees Celsius. But the actual boiling point is 64.7 degrees Celsius. What is Fiona's percent error?

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- 3) Ken thought that the distance between his new home and work was 32 km. Upon verifying it, he found the distance was 41.5 km. Find Ken's percent error.

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- 4) Yvonne is training for the marathon. She calculates to see whether she can cover 9 km in 10 minutes. But she completes the distance in 8 minutes. What is the percent error in Yvonne's calculation?

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- 5) Derek filled the pitcher with 250 mL of lemonade. What was the percent error if the actual measurement was 275 mL?

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