

# Percentage Error Word Problems

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Read each problem and calculate the percent error

1. An object has a mass of 50 kg. On Sarah's balance, it weights 48 kg. What is the percent error in her balance?

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2. A student measured the temperature of boiling water and got an experimental reading of  $94^{\circ}\text{C}$ . What is the percent error?

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3. The actual volume of an object is 34.8 ml. When Andrew measured it, he obtained the volume as 30.2 ml. What is the percent error in his result?

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4. The time taken by Joseph to prepare a maths worksheet is 30 minutes, which the timer wrongly measured as 38 minutes. What is the percent error in the timer?

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5. The actual volume of a cylinder is  $9\text{ cm}^3$ . However the volume was wrongly calculated as  $8.5\text{ cm}^3$ . What is the percent error in the calculation?

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# Percentage Error Word Problems

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## Answers

1. An object has a mass of 50 kg. On Sarah's balance, it weights 48 kg. What is the percent error in her balance?

4%

2. A student measured the temperature of boiling water and got an experimental reading of  $94^{\circ}\text{C}$ . What is the percent error?

6%

3. The actual volume of an object is 34.8 ml. When Andrew measured it, he obtained the volume as 30.2 ml. What is the percent error in his result?

13.21%

4. The time taken by Joseph to prepare a maths worksheet is 30 minutes, which the timer wrongly measured as 38 minutes. What is the percent error in the timer?

26.67%

5. The actual volume of a cylinder is  $9\text{ cm}^3$ . However the volume was wrongly calculated as  $8.5\text{ cm}^3$ . What is the percent error in the calculation?

5.56%