Calculating Percent Error

MATH MONKS

Solve the questions.

1. The accepted weight of a box is 120 grams. If the measured weight is 110 grams, calculate the percent error.

2. The length of a pencil is supposed to be 18 centimeters. If a student measures it and gets a length of 16 centimeters, find the percent error.

3. A science experiment predicts a temperature increase of 15°C. If the actual temperature increased observed is 12°C, determine the percent error.

4. A student measures the time it takes for a ball to roll down a ramp as 4 seconds. If the accepted time is 3 seconds, find the percent error.

5. In a mathematics competition, a student was expected to score 90 points. If the student actually scored 85 points, find the percent error in his expectation.

6. The expected yield of a chemical reaction is 85 grams. If the actual yield obtained is 80 grams, calculate the percent error.

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Answers

1. The accepted weight of a box is 120 grams. If the measured weight is 110 grams, calculate the percent error.

   8.33%

2. The length of a pencil is supposed to be 18 centimeters. If a student measures it and gets a length of 16 centimeters, find the percent error.

   11.11%

3. A science experiment predicts a temperature increase of 15°C. If the actual temperature increased observed is 12°C, determine the percent error.

   25%

4. A student measures the time it takes for a ball to roll down a ramp as 4 seconds. If the accepted time is 3 seconds, find the percent error.

   33.3%

5. In a mathematics competition, a student was expected to score 90 points. If the student actually scored 85 points, find the percent error in his expectation.

   5.56%

6. The expected yield of a chemical reaction is 85 grams. If the actual yield obtained is 80 grams, calculate the percent error.

   5.88%