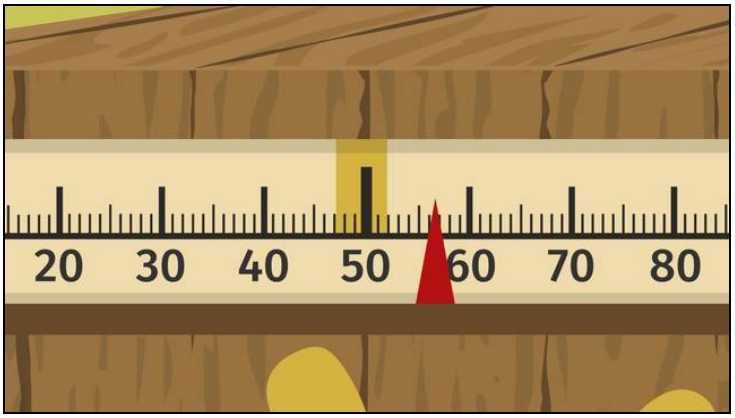
Worksheets to print out from sofatutor.com

Percent Error



1 **Solve the problem using the formula:** $\text{Percent Error} \frac{\text{Absolute Error}}{|\text{Exact Value}|}$

2 Which formula shows the correct percent error equation?

3 What are the steps for finding the percent error of 247 from the exact value of 250?

4 Using 100 as the Exact Value, pair up the Estimated Values with the correct Percent Error.

5 Can you find Divya's percent error?

6 Find the percent error of the given values from the exact value of 75.

\+ with many hints, answer keys, and solution approaches for all tasks

Solve the problem using the formula: $\mathbf{Percent Error} = \frac{\mathbf{Absolute\ Error}}{|\mathbf{Exact\ Value}|}$

Select the correct percent error.

Luis estimated that he would spend $55 on a gift for his mother. He actually spent $50 on a gift for his mother. What is the percent error for his estimate?

- [ ] A) 5%
- [ ] B) 20%
- [ ] C) 10%
- [ ] D) 15%

Our hints for the tasks

1 from 6

Solve the problem using the formula: $\text{Percent Error} = \frac{\text{Absolute Error}}{|\text{Exact Value}|}$

1. Hint

You must first find the **Absolute Error**, which is the distance the estimate is from the **Exact Value**. Here, it is 5.

2. Hint

Divide the **Absolute Error** by the **Exact Value**. Here, you would divide 5 by 50.

3. Hint

You will need to convert the decimal to a percent by multiplying it by 100 to find the **Percent Error**.

Solutions and solution approaches for the tasks

1 from 6

Solve the problem using the formula: $\mathbf{Percent Error} = \frac{\mathbf{Absolute\ Error}}{|\mathbf{Exact\ Value}|}$

Answer key: C

To find the Absolute Error, find the distance of $55 from the exact value of $50.

Absolute Error = 5

Percent Error = $\frac{5}{50}$

Solve for Percent Error: $\frac{5}{50}$ = 0.1

Convert 0.1 to a percent

$0.1 \cdot 100 = 10$

Percent Error = **10%**