## PERCENTAGE ERROR

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Percentage error is a way for scientists to express how far off a laboratory value is from the commonly accepted value.
The formula is:

$$
\begin{aligned}
\% \text { error } & =\left|\frac{\text { Accepted Value }- \text { Experimental Value }}{\rightarrow}\right| \times 100 \\
& \text { Accepted Value }
\end{aligned}
$$

absolute value

Determine the percentage error in the following problems.

1. Experimental Value $=1.24 \mathrm{~g}$

Accepted Value $=1.30 \mathrm{~g}$

Answer: $\qquad$
2. Experimental Value $=1.24 \times 10^{-2} \mathrm{~g}$

Accepted Value $=9.98 \times 10^{-3} \mathrm{~g}$

Answer: $\qquad$
3. Experimental Value $=252 \mathrm{~mL}$

Accepted Value $=225 \mathrm{~mL}$

Answer: $\qquad$
4. Experimental Value $=22.2 \mathrm{~L}$

Accepted Value $=22.4 \mathrm{~L}$

Answer: $\qquad$
5. Experimental Value $=125.2 \mathrm{mg}$

Accepted Value $=124.8 \mathrm{mg}$

Answer: $\qquad$

