

Name _____

Date _____

Percent Error and Percent Increase- Guided Lesson Explanation**Explanation #1**

The original price was \$25. An increase of 200% means that the number will double.

$$\$25 + \$25 = \$50$$

100%	100%
25	25

So the price of the jelly cake will be an additional \$50.

$$\$25 + \$50 = \$75 \text{ will be the new sale price.}$$

Explanation #2

When comparing an experimental quantity, E , with a theoretical quantity, T , which is considered the "correct" value. The percent error is the absolute value of the difference divided by the "correct" value times 100.

$$\% \text{ Error} = \frac{\text{New value} - \text{Old value}}{\text{Old Value}} \times 100$$

$$\text{Step 3) } \% \text{ Error} = \frac{200 - 150}{150} \times 100$$

$$\% \text{Error} = \frac{50}{150} \times 100$$

$$\% \text{Error} = 33.33\%$$



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Explanation #3

The original price of a table fan was \$50. An increase of 250% means that the number will go up by double and a half.

$$\$50 + \$50 + \$25 = \$125 \text{ increase.}$$

100%	100%	50%
50	50	25

So the new sale price will be \$175 (\$50 + \$125)

