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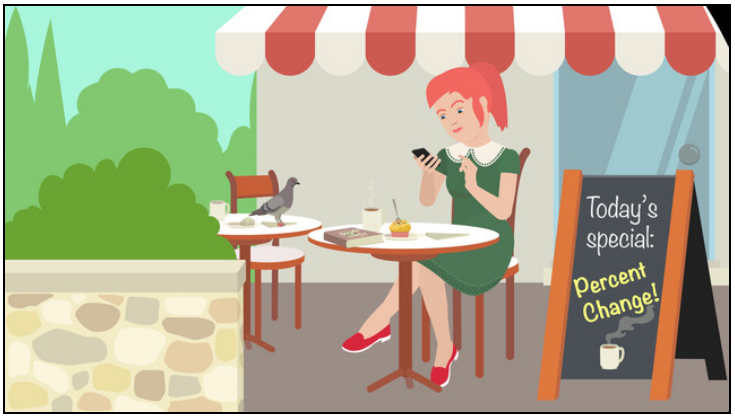
Percent Change



1. **Decide which formula you need in order to calculate the percent change.**
2. Explain the difference between increase and decrease.
3. Calculate the percent change.
4. Identify the most successful posts.
5. Determine the percent change for each situation.

\+ with lots of tips, answer keys, and detailed answer explanations for all of the problems.

Decide which formula you need in order to calculate the percent change.

Choose the correct formula.

☐ A $\text{percent change} = \frac{\text{amount of change}}{\text{new value}}$

☐ B $\text{percent change} = \frac{\text{new value}}{\text{original value}}$

☐ C $\text{percent change} = \frac{\text{amount of change}}{\text{original value}}$

☐ D $\text{percent change} = \frac{\text{original value}}{\text{new value}}$

☐ E $\text{percent change} = \frac{\text{original value}}{\text{amount of change}}$

☐ F $\text{percent change} = \frac{\text{new value}}{\text{amount of change}}$

Hints for solving these problems

1 of 5

Decide which formula you need in order to calculate the percent change.

Hint #1

Just look at the following example:

- Your favorite jeans cost $100\ \$$.
- They are now on sale for a reduced price of $80\ \$$.

Calculate the percent of change.

The price decreased by $20\ \%$.

Hint #2

$100\ \$$ is the original value (original price).

Answers and detailed answer explanations for these problems

1 of 5

Decide which formula you need in order to calculate the percent change.

Answer key: C

Percent change is the amount of change divided by the original value:

$$\text{percent change} = \frac{\text{amount of change}}{\text{original value}}$$

Now we have to multiply the resulting decimal by 100 then add a percent sign.

- The amount of change is positive, even if a value decreases. We always subtract the smaller from the bigger value.
- This amount will be divided by the original value.
- It won't be divided by the new value.