

Name: _____

Date: _____ Per. _____

Algebra Foundations

CW 34 Percent of Change Notes

Amount of change = $original - new$

If the original amount is greater, then it has decreased.

Percent of change = $\frac{amount\ of\ change}{original}$

This answer will be in decimal form. Then multiply by 100 to get the percent form of the answer.

State whether each percent of change is a percent of increase or a percent of decrease. Then find the AMOUNT of increase or decrease, and the PERCENT of increase or decrease.

- | | |
|---|---|
| 1. Original: \$100 New: \$59 Increase or Decrease Amount of change: Percent of change: | 2. Original: 58 homes New: 152 homes Increase or Decrease Amount of change: Percent of change: |
| 3. Original: 324 people New: 549 people Increase or Decrease Amount of change: Percent of change: | 4. Original: 66 dimes New: 30 dimes Increase or Decrease Amount of change: Percent of change: |
| 5. Original: \$53 New: \$75 Increase or Decrease Amount of change: Percent of change: | 6. Original: 15.6 liters New: 11.4 liters Increase or Decrease Amount of change: Percent of change: |
| 7. Original: \$3.78 New: \$2.50 Increase or Decrease Amount of change: Percent of change: | 8. Original: 231.2 mph New: 236.4 mph Increase or Decrease Amount of change: Percent of change: |

What Do You Get When You . . .

1 Cross a lightning storm with a cashew farm?

$\$9.22$ 10.5% 16.6% 165.2% 7.4% 8.2% $\$9.22$ 21.4% 161.5% 150% 42.9% 11.2% 16.6% 165.2%

2 Cross a weeping willow with a UFO?

8.2% $\$9.15$ 6.1% 60.9% 75.9% 33.3% $\$9.22$ 27.3% 58.1% 165.2% 8.2% 10.5% 6.1% 117.4% 60.9%



Do each exercise and find your answer in the code (some answers are rounded).
Each time the answer appears, write the letter of the exercise above it.



Find the percent of increase or decrease.

- G. 55 mph to 70 mph
- E. 92 lb to 200 lb
- A. 5 ft 1 in. to 5 ft 6 in.
- D. 70 mph to 55 mph
- Y. 18.7 kg to 4.5 kg
- I. 4.72 billion to 3.15 billion

Solve.

- O. Adding cheese to a McDonalds' Quarter Pounder increases the fat content from 21 g to 30 g. What is the percent of change?
- U. In 10 years, the average number of hours of TV watched per week by teenagers dropped from 23.9 to 21.4. Find the percent of change.
- L. Both Bert and Ernie received an increase in their weekly salaries. Bert's salary increased from \$520 to \$570. Ernie's salary went from \$580 to \$645. Find the percent of increase for each salary. What was the larger of the two percents?
- C. Mr. Buckle bought 100 shares of Abacus Corp. stock at \$36.75 per share and sold them at \$34.50 per share. What was his percent loss?
- B. In order to get more light into a room, Mr. Lumen replaced a 3 by 4 ft window with a 5 by 6 ft window. What was the percent of increase in the area of glass?
- S. World population increased from 2.3 billion in 1900 to 6.1 billion in 2000. What was the percent of increase?
- T. During a sale, the price of a pair of running shoes was marked down from \$89.95 to \$75.00. What was the percent discount?
- N. Barbara was earning \$8.70 per hour when she got a 6% increase in pay. What was her rate of pay after the increase?
- R. The town of Pleasantville conducted a 5-year crime prevention program. Based on the graph, what was the percent of change in the number of crimes from Year 1 to Year 5.

