


Today is 10/4/17


You will need your purple note packet and a
calculator

<p>Agenda:</p> <p>Brain Teaser</p> <p>Video</p> <p>Percent Change</p>	<p>Quiz??</p>
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Lesson 4: Percent of Change Problems

$$\text{Percent Change} = \frac{\text{Change}}{\text{Original}} \times 100$$

 <http://www.shmoop.com/video/all-you-need-to-know-about-percent-of-change>

 <https://www.youtube.com/watch?v=x3asXy8uato>

1. If the price of a purse increased from \$45 to \$54, what was the percent of increase?

$$\frac{54-45}{45} = \frac{9}{45} = .2$$

$$.2(100)=20\% \text{ increase}$$

2. If the price of a softball glove decreased from \$60 to \$36, what was the percent of decrease?

$$\frac{60-36}{60} = \frac{24}{60} = .4$$

$$.4(100)=40\% \text{ decrease}$$

3. Mary decreased her time in the mile walk from 30 minutes to 24 minutes. What was the percent of decrease?

$$\frac{30-24}{30} = \frac{6}{30} = .2$$

$$.2(100)=20\% \text{ decrease}$$

4. A DVD movie originally cost \$24.99. Its current price is \$19.99. What is the percent of change rounded to the nearest percent?

$$\frac{24.99-19.99}{24.99} = \frac{5}{24.99} = .2$$

$$.2(100)=20\% \text{ decrease}$$

5. A hat's price rose from \$9.99 to \$12.99. What was the percent of change rounded to the nearest percent?

$$\frac{12.99 - 9.99}{9.99} = \frac{3}{9.99} = .3$$

$$.3(100) = 30\% \text{ increase}$$

6. Tom's weekly salary increase from \$240 to \$288. What was the percent of change?

$$\frac{288 - 240}{240} = \frac{48}{240} = .2$$

$$.2(100) = 20\% \text{ increase}$$

7. Kate had \$2,251.35 in her bank account. Currently, she has \$1,975.86 in her account. Find the percent of change rounded to the nearest percent.

$$\frac{2251.35 - 1975.86}{2251.35} = \frac{275.49}{2251.35} = .12$$

whole number

$$.12(100) = 12\% \text{ decrease}$$

8. A car dealer raised the price of a car from \$10,500 to \$11,000. What was the percent of change?

$$\frac{11,000 - 10,500}{10,500} = \frac{500}{10,500} = .0476$$

$$.0476(100) = 4.76\% \text{ increase}$$

9. In 1986 the average price of a gallon of gasoline was \$0.93. In 2007 the average price of a gallon of gasoline was \$2.77. Find the percent of change.

$$\frac{2.77 - .93}{.93} = \frac{1.84}{.93} = 1.9784$$

$$1.9784(100) = 197.84\% \text{ or } 198\% \text{ increase}$$