

3-7-19

Aim: SWBAT find the percent of change and the percent error.

HW: Puzzle

Quiz tomorrow

Test Wednesday

Do Now: Packet Page 22

Aim: SWBAT find the percent of change and the percent of error.

Do Now: Suzanne bought a sweater at the sale price of \$25. The original cost of the sweater was \$40. What percent represents the discount that Suzanne received when buying the sweater?

$$40 - 25 = 15$$

$$\frac{15}{40} = \frac{x}{100}$$

$$\frac{25}{40} = \frac{x}{100}$$

$$x = 62.5$$

← the amount of the retail price that you're paying for

$$100\% - 62.5\% = 37.5\%$$

sale for

- A. 15% **B. 37.5%** C. 60% D. 62.5%

Finding the Percent of Change

$$\frac{\text{Amt. of Change}}{\text{Original Amt.}} = \frac{r}{100}$$

Tell whether the percent change is an increase or decrease. Then, find the percent of change. Round your answer to the nearest hundredth.

	A	B
1	<p>\$36,000 to \$40,000</p> $40000 - 36000 = 4000$ $\frac{4000}{36000} = \frac{x}{100}$ $\frac{36000x}{36000} = \frac{400000}{36000}$ $x = 11.111...$ $x \approx 11.11$	<p>10 miles to 36 miles</p> $36 - 10 = 26$ amt. of increase $\frac{26}{10} = \frac{x}{100}$ $\frac{10x}{10} = \frac{2600}{10}$ $x = 260$
2	<p>5.42 minutes to 5.2 minutes</p> $5.42 - 5.2 = 0.22$ amt. of decrease $\frac{0.22}{5.42} = \frac{x}{100}$ $x \approx 4.06$	<p>64 teams to 4 teams</p> $64 - 4 = 60$ $\frac{60}{64} = \frac{x}{100}$ $\frac{64x}{64} = \frac{6000}{64}$ $x = 93.75$
3	<p>89 members to 120 members</p> $120 - 89 = 31$ $\frac{31}{89} = \frac{x}{100}$	<p>500 sales to 380 sales</p> $500 - 380 = 120$ $\frac{120}{500} = \frac{x}{100}$ $\frac{500x}{500} = \frac{12000}{500}$ $x = 24$

$$\frac{89x}{89} = \frac{3100}{89}$$

$$x = 34.8314...$$

$$x \approx 34.83$$

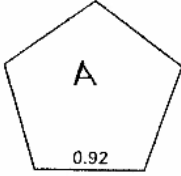
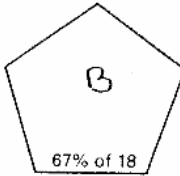
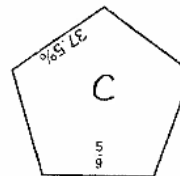
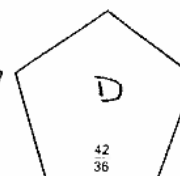
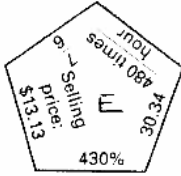
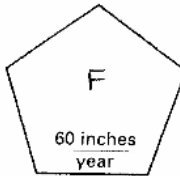

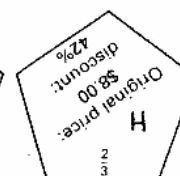
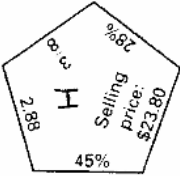
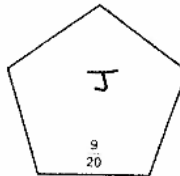
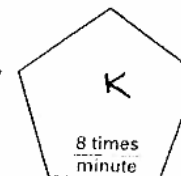
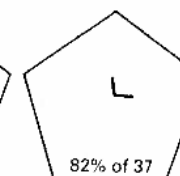


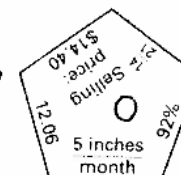
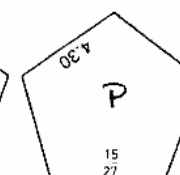
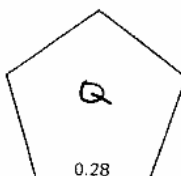

CHAPTER 7

Name _____ Date _____

Chapter Review Games and Activities
For use after Chapter 7

Peculiar Pentagons!

Cut out the pentagons. Match a side of each pentagon with a side of another pentagon. For example: 0.43 would match 43%; $\frac{3}{10}$ would match 30%; $\frac{5}{10}$ would match $\frac{10}{20}$. When you have matched all the sides, paste the pentagons in the correct configuration onto a piece of paper. (Not all sides have a match.)

 <p>A 0.92</p>	 <p>B 67% of 18</p>	 <p>C 37.5% $\frac{5}{8}$</p>	 <p>D $\frac{42}{36}$</p>
 <p>E 430% 480 times per hour Selling price: \$13.11 Original price: \$10.00</p>	 <p>F $\frac{60 \text{ inches}}{\text{year}}$</p>	 <p>G Original price: \$18.00 discount: 20%</p>	 <p>H Original price: \$8.00 discount: 42% $\frac{2}{3}$</p>
 <p>I 45% 2.88 3.00 28% mark up</p>	 <p>J $\frac{9}{20}$</p>	 <p>K $\frac{8 \text{ times}}{\text{minute}}$</p>	 <p>L 82% of 37</p>
 <p>M Wholesale price: \$7.50 mark up: 75%</p>	 <p>N 24% of 12 Selling price: \$4.64</p>	 <p>O 92% 5 inches/month Selling price: \$14.40 Wholesale price: \$12.00</p>	 <p>P 4.30 $\frac{15}{27}$</p>
 <p>Q 0.28</p>	 <p>R Original price: \$28.00 discount: 15%</p>		

Review and Projects

