

Name: _____ Period: _____

Week 24 Homework Packet – 7th Grade Math Honors

SCORE
/4

WEEK SCORE
/12

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ASSIGNMENT DUE TUESDAY, FEBRUARY 7, 2017

Unit 3, Chapter 6 - Percents

For each problem, you will **estimate** the answer by converting percentages and numbers, then by doing mental math. Show how you do the estimation, using the example as a guide.

Ex.) Estimate 10.3% of 81

$$10.3\% \approx 10\% \quad 81 \approx 80 \quad 10\% \text{ of } 80 = \textcircled{8}$$

1) Estimate 24% of 406

2) Estimate 20.3% of 497

3) Estimate 298% of 31

4) Estimate 52% of 793

5) Estimate 33% of 609

6) Estimate 21% of 1,016

7) Estimate 9.3% of 689

8) Estimate 202% of 39.72

9) Estimate 148.7% of 206.71

10) Estimate 34.1% of 29.8

11) Estimate 124% of 40,381

12) Estimate 49.3% of 19.93

13) Estimate 10.07% of 4,017

Name: _____

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7th Grade Math Honors

SCORE

/4

Stamp

ASSIGNMENT DUE WED/THU, FEBRUARY 8/9, 2017

Unit 3, Chapter 6 - Percents

For each problem below, find the percent change.

Show all work! An example has been done for you. Round answers to the nearest tenth.

Ex.) From 52 to 27

$$\frac{27 - 52}{52} = \frac{-25}{52} = -48.1\%$$

1) From 73 to 53

2) From 37.1 to 58

3) From 82 to 4

4) From 51 to 92

5) From 49 to 73

6) From 53 to 37

Skills Review

For each problem below, write an equation to model the situation, then solve the equation. Round answers to the nearest tenth.

7) 43% of what is 56?

8) 103 is 50% of what?

9) 158 is 9% of what?

10) What is 75% of 72?

11) What percent of 124 is 102?

12) 47 is what percent of 159?

Name: _____

Period: _____

7th Grade Math Honors

SCORE

/4

Stamp

ASSIGNMENT DUE FRIDAY, FEBRUARY 10, 2017

Unit 3, Chapter 6 - Percents

For each problem below, SHOW ALL WORK. Round your answers to one decimal place. You will need a calculator, but to show work, show how you set up the problem. An example has been done for you

Ex) You notice that gas this week costs \$2.94 per gallon. If it cost \$2.70 per gallon last week, what is the percent change?

$$2.94 - 2.70 = 0.24$$

$$0.24 \div 2.70 = 0.0888... = \textcircled{8.9\%}$$

1) The California condor's population in California was only 173 in 2010. Thanks to conservation efforts, the population grew to 268 in 2015. What was the percent change in population between 2010 and 2015?

2) Major League Soccer (MLS) is the top professional soccer league in the USA and Canada. In 2014, an average of 19,148 people attended each game. In 2015, the average increased to 21,574 people per game. What was the percent change in attendance from 2014 to 2015?

3) A glacier's surface area was 275 square miles in 2006 but because of climate change it is now 190 square miles. What is the percent change in area of the glacier from 2006 to now?

4) Your salary at your job last year was \$480 per week, but because you received a raise, your salary is now \$510 per week. What percent change in your salary did you receive?

5) The last time he checked, Justin was 30 inches tall. Justin just measured himself again and he was 34 inches tall. What was the percent change in Justin's height?

6) The staff at a company went from 40 to 29 employees. What is the percent change in staff?

7) At a store, a TV that was selling for \$650 is on sale for \$500. What is the percent change in the price of the TV?

8) Last year, a company making a type of toy recorded 42,000 sales. This year, they recorded 37,500 sales. What is the percent change in the number of sales of the toy?