

Name: _____ Period: _____

Week 23 Homework Packet – 7th Grade Math

ASSIGNMENT DUE WED/THU. FEBRUARY 1/2, 2017

Unit 2, Chapter 2 – Percents

Score
/ 4

Week Score
/ 8

Stamp

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

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

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

ASSIGNMENT DUE FRIDAY, FEBRUARY 3, 2017

Unit 2, Chapter 2 – Percents

For each problem below, write an equation to model the situation, then solve the equation. Round answers to the nearest tenth. An example has been done for you.

Ex) 43% of what is 56?

$$\frac{0.43 \cdot x = 56}{0.43 \quad 0.43} \quad x = 56/0.43$$

$$x = 130.2$$

1) 103 is 50% of what?

2) 158 is 9% of what?

3) What is 75% of 72?

4) What percent of 124 is 102?

5) 47 is what percent of 159?

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

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

6) From 73 to 53

7) From 37.1 to 58

8) From 82 to 4

9) From 51 to 92

10) From 49 to 73

11) From 53 to 37