

Name: _____ Period: _____

Week 23 Homework Packet – 7th Grade Math Honors

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

Unit 3, Chapter 6 - Percents

SCORE
/ 4

WEEK SCORE
/ 8

Stamp

For each problem below, show all work! Show how you set up the equation, then solve. You may use a calculator, but you will not receive a stamp if you don't show how to set up the equation. An example has been done for you.

Ex.) 45% of 300 is what number?

$$0.45 \cdot 300 = x$$

$$x = 135$$

1) 30 is 40% of what number?

2) 25% of what number is 80?

3) What number is 20% of 170?

4) The number 35 is what percent of 50?

5) The number 90 is what percent of 600?

6) The number 459 is 85% of what number?

7) 96 is 80% of what number?

Skills Review

Determine which of each pair of rational numbers is greater. Show all work! (*Using pictures to show work doesn't count – the numbers are too close to each other for that to work.*)

8) $\frac{3}{5}$ and $\frac{7}{9}$

9) $\frac{2}{3}$ and $\frac{7}{10}$

10) $\frac{4}{5}$ and $\frac{7}{9}$

11) $\frac{2}{7}$ and $\frac{1}{4}$

12) $\frac{6}{5}$ and $\frac{5}{4}$

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7th Grade Math Honors

SCORE

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Stamp

ASSIGNMENT DUE FRIDAY, FEBRUARY 3, 2017

Unit 3, Chapter 6 - Percents

Each scenario below will be asked in three parts. Complete each part separately to get your answer. Show how you set up problems b and c or you will not receive a stamp. An example has been done for you.

Ex.) a) What is 35% represented as a number?

0.35

b) What is 35% of \$260?

$$0.35 \times \$260 = (\$91)$$

c) What is the cost of a \$260 lawnmower that is discounted by 35%?

$$\$260 - \$91 = (\$169)$$

1) a) What is 8% represented as a number?

b) What is 8% of \$130?

c) If sales tax is 8%, how much will you spend in total if you buy a \$130 handheld game system?

2) a) What is 20% represented as a number?

b) What is 20% of \$62?

c) If your meal bill, after tax, comes out to \$62, how much will you pay in total if you include a 20% tip?

3) a) What is 40% represented as a number?

b) What is 40% of \$49.95?

c) What is the cost of a \$49.95 video game that is discounted by 40%?

4) a) What is 28% represented as a number?

b) What is 28% of \$540?

c) If you earn \$540 in a week and 28% of it is taken out of your paycheck as taxes, what will your take-home pay be for that week?

5) a) What is 6% represented as a number?

b) What is 6% of \$540?

c) If you earn \$540 per week and your boss tells you that she is giving you a 6% raise, what will be your new weekly salary?