

Name: _____ Period: _____

Week 11 Homework Packet – 7th Grade Math Honors

ASSIGNMENT DUE TUESDAY, OCTOBER 18, 2016

Unit 2, Chapter 4 – Powers and Roots

For each problem below, write the expansion of the power, then evaluate. An example has been done for you.

Ex) 5^4

$$5 \cdot 5 \cdot 5 \cdot 5$$
$$625$$

1) 2^6

2) $(-3)^3$

3) 4^2

4) 2^5

5) 10^5

6) 5^3

7) 3^4

SCORE
/4

WEEK SCORE
/12

Stamp

Skills Review

Evaluate each of the following expressions if $x = 2$, $y = -5$, and $z = -3$. Simplify all answers. **Show all work!**

8) $3x + 4$

9) $\frac{y + z}{2}$

10) yz

11) $x - z$

12) $\frac{xy}{4}$

13) $x + y - z$

Name: _____

Period: _____

7th Grade Math Honors

SCORE

/4

Stamp

ASSIGNMENT DUE WED/THU, OCTOBER 19/20, 2016

Unit 2, Chapter 4 - Powers and Roots

For each problem below, write the expansion of the power, then evaluate. An example has been done for you.

Ex.) $\left(\frac{2}{3}\right)^3$

$$\frac{2}{3} \times \frac{2}{3} \times \frac{2}{3} = \frac{8}{27}$$

1) $\left(\frac{3}{4}\right)^2$

2) $\left(\frac{3}{10}\right)^3$

3) $\left(\frac{4}{5}\right)^3$

4) $\left(\frac{1}{6}\right)^2$

5) $\left(\frac{3}{2}\right)^4$

6) $\left(\frac{1}{10}\right)^6$

Evaluate each exponential expression below. Be sure to follow correct order of operations.

7) -2^4

8) $(-2)^4$

9) -3^3

10) $(-3)^3$

Skills Review

Evaluate and simplify the following. Show all work.

11) $\frac{2}{5} \div \left(-\frac{7}{10}\right)$

12) $\frac{4}{7} - \frac{2}{3}$

Name: _____

Period: _____

7th Grade Math Honors

SCORE

/4

Stamp

ASSIGNMENT DUE FRIDAY, OCTOBER 21, 2016

Unit 2, Chapter 4 - Powers and Roots

For each problem below, rewrite the expression using only positive integers, then evaluate. An example has been done for you.

Ex.) 2^{-6}

$$\frac{1}{2^6} = \frac{1}{64}$$

1) 10^{-3}

2) 5^{-3}

3) 8^{-2}

4) 2^{-4}

5) 4^{-3}

6) 7^{-2}

7) 17^{-1}

Skills Review

8) You buy s bottles of soda that cost \$2 each and c bags of chips that cost \$5 each. Write an expression to calculate the total cost of your purchase.

9) A classroom has four more boys than girls. If the number of girls in the classroom is g , write an expression to calculate the number of boys in the classroom.

10) The local theater charges \$5 for admission for a child and \$8 for admission for an adult. If they sell x child tickets and y adult tickets, write an expression to calculate how much money they earned in ticket sales.

11) Jamal wants to buy a video game that costs v dollars. He has earned m dollars mowing lawns. Write an expression to calculate how much more money Jamal needs to earn to be able to buy the video game.

12) Manjula has earned x dollars per week for y weeks and has spent z dollars of that money so far. Write an expression to determine how much money she has remaining.