N3CS19 Practice Set 04

Instructions: Answer each question on loose leaf, quad-ruled (graph paper), headed properly and written in lead-graphite. Remember to fold paper along the center, work exercises in order top to bottom, left column then right column. Staple multiple pages

1) Add: $\frac{1}{4}+\frac{1}{6}$

2) Simplify: $7-2(12\div 4\bullet 3)+12$

3) If $s=\frac{d}{t}$, where $d=283$ and $t=4$, determine s.

4) Los Angeles to San Luis Obispo's ***distance*** is 193 mi; if it takes me 3.2 ***hours*** to get there, what is my average ***speed***?

5). What is the *best* number family to describe the centimeters(cm) on this ruler? Counting Numbers, Whole Numbers, Integers, or Rational? Justify your argument with evidence.

6) Write the following statement as an exponent, as multiplying, and then evaluate it:
"*Two to the sixth power.*"

7) Does your quotient in question #4 terminate or repeat? State the terminating or repeating decimal.

8) Evaluate $\sqrt{3^2+4^2}$; *hint: treat the radical symbol like parentheses in your order of operations!* Is this expression rational or irrational? Justify your argument with evidence.

Bonus: *For question #8, change '3' to '4'; is this expression now rational or irrational? Justify your argument with evidence.*