N3CS19 Practice Set 26

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) Simplify: $6-\frac{2}{3}(6-9x)-4x$

2) Determine the solution to the equation $12(x+3)=4(2x+9)+4x$

3) Determine the solution to the equation: $-2(5y-9)=-3(5y-7)+5y$

4) Determine the solution to the equation: $-7(x+9)=9(x-5)-14x$

Evaluate the following square roots:

5) $\sqrt{8}$

6) $\sqrt{20}$

7) $\sqrt{128}$

8) Determine the product: $800.5 \bullet \left(2\times10^{6}\right)=$

9) Write the following value without exponents: $\frac{\left(8^{4}\right)^{2}}{8^{11}}$

10) Evaluate: $\sqrt[3]{\frac{8}{27}}$

11) Mark studied a group of 30 whales. If each whale weighed approximately 3.8 x 10^{5} pounds, find the
total weight of all 30 whales. Express your answer in scientific notation.

12) Which is a true statement?

A. 1 x 10^{-1} = 0.01

B. 1 x 10^{-5} = 0.000001

C. 1 x 10^{-4} = 0.0001

D. 1 x 10^{-2} = 0.001