N3CS19

Practice Set 19

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. If your current grade pct. is \geq 82%, you may complete 1 of the 3 sections, yet either KSC or Area 51.

1) Name the numeric terms in the equation n - 41 = -162) Name the numeric coefficient in the expression $\frac{1}{2}mv^2$ 4) Multiply: $(7x^4y^{-3})^3$; write exponents positive. 3) $6.41 \times 10^9 - 9.7 \times 10^7$ 5) Simplify the radical expression $\sqrt{54}$ 6) Solve for the unknown: $n^2 = 27$ 7) Solve for the unknown: -8x = 12; simplify solution, keep fractions improper. 8) Solve for the unknown: n - 4.9 = 13.79) Name *all* the terms in the equation $6x^2 - x = 12$ 10) Name the numeric coefficients in the expression $3x^2 - 2y + z$ 12) A triangle has a base of $4x^3 cm$ and a height of $4.8x^2 cm$; 11) $9.7 \times 10^{9} (6.4 \times 10^{7}) =$ determine the triangle's area. (the formula for area of a triangle can be found in your Agenda book! 13) Simplify the radical expression: $3\sqrt[3]{-1728}$ 14) A square has an area of $6.76cm^2$; what is the length of any side? 15) Solve for the unknown: $-\frac{3}{8}n = 27$ 16) Solve for the unknown: $x - \frac{3}{7} = -6$; keep solution as a fraction, simplified and improper. 17) State all the terms in the equation $d = -\frac{1}{2}gt^2 + a_0t + s$ 18) State the numeric coefficients in the expression $-x^2 + 3xy - 2y^2$ 19) Solve for the unknown: $6.4 \times 10^9 \cdot n = 1.6 \times 10^{12}$ 20) Simplify the expression; write exponents positive: $\frac{(6n^{-2}b^3)^3}{36n^{-8}b^6}$ 21) A cube has a volume of 2197 mm³; compute its surface area (hint: the area of all of its sides). 22) Solve $x^2 = \frac{324}{6}$; Rationalize the denominator and simplify, if possible. 23) Solve for the unknown: $v - 6.75 = 4\frac{3}{8}$ 24) Solve for the unknown: $\frac{3}{8}s = -4.75$