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 $\mathbf{\geq 8 2 \%}$, you may complete 1 of the $\mathbf{3}$ sections, yet either KSC or Area 51 .

1) Name the numeric terms in the equation $n-41=-16$
2) Name the numeric coefficient in the expression $\frac{1}{2} m v^{2}$
3) $6.41 \times 10^{9}-9.7 \times 10^{7}$
4) Multiply: $\left(7 x^{4} y^{-3}\right)^{3}$; write exponents positive.
5) Simplify the radical expression $\sqrt{54} \quad$ 6) Solve for the unknown: $n^{2}=27$
6) Solve for the unknown: $-8 x=12$; simplify solution, keep fractions improper.
7) Solve for the unknown: $n-4.9=13.7$
8) Name all the terms in the equation $6 x^{2}-x=12$
9) Name the numeric coefficients in the expression $3 x^{2}-2 y+z$
10) $9.7 \times 10^{9}\left(6.4 \times 10^{7}\right)=\quad$ 12) A triangle has a base of $4 x^{3} \mathrm{~cm}$ and a height of $4.8 x^{2} \mathrm{~cm}$; 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 $6.76 \mathrm{~cm}^{2}$; what is the length of any side?
11) 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.
12) State all the terms in the equation $d=-\frac{1}{2} g t^{2}+a_{0} t+s$
13) State the numeric coefficients in the expression $-x^{2}+3 x y-2 y^{2}$
14) Solve for the unknown: $6.4 \times 10^{9} \bullet n=1.6 \times 10^{12}$
15) Simplify the expression; write exponents positive: $\frac{\left(6 n^{-2} b^{3}\right)^{3}}{36 n^{-8} b^{6}}$
16) A cube has a volume of $2197 \mathrm{~mm}^{3}$; compute its surface area (hint: the area of all of its sides).
17) Solve $x^{2}=\frac{324}{6}$; Rationalize the denominator and simplify, if possible.
18) Solve for the unknown: $v-6.75=4 \frac{3}{8}$
19) Solve for the unknown: $\frac{3}{8} s=-4.75$
