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) Write the following statement as an exponent; expand it, then evaluate it.
"Four to the fifth power."
2) $\frac{2}{3}+\frac{5}{9}=$
3) Evaluate $\frac{v_{f}-v_{i}}{t}$ where $v_{f}=120, v_{i}=76=$, and $t=12$
4) Evaluate $\left(a^{2}+b^{2}\right)$ where $\mathrm{a}=8$ and $\mathrm{b}=15$
5) Evaluate $\sqrt{a^{2}+b^{2}}$ where $\mathrm{a}=8$ and $\mathrm{b}=15$
6) If $x^{2}=361$, solve for $x$
7) You go to a swimming pool and jump off the 10 m diving board. You dive 8 m into the water, or 8 m below the surface.
What number family best describes the total distance you traveled from the top of the board to 8 m below the surface of the water? Justify your argument with evidence.
8) Evaluate $8+2(4 \div 3 \cdot 2)-6$
