1. Is $\frac{22}{7}$ rational? Justify your response.
2. Determine the value of the variable that satisfies the equation $8 n-3(4 n+2)=7+5(n-2)$, and use our rhymes to describe each step of your solution.

Simplify; use our rhymes to describe each step.
3. $\frac{\left(6 n^{2} d^{3}\right)^{3}}{36 n^{5} d^{7}}$

Solve; use our rhymes to describe each step.
4. $x^{2}=\frac{576}{324}$
$x=$
5. Joanna has a new box that is a cube, but only knows that the length of one side is $5 a b^{3}$ units. What is the volume of Joanna's new storage box?
6. Jupiter has a diameter of $1.43 \cdot 10^{5} \mathrm{~km}$, and Mars' diameter is $6.79 \bullet 10^{3} \mathrm{~km}$. How many times larger is Jupiter's diameter to Mars' diameter?

