- 1. Is $\frac{22}{7}$ rational? Justify your response.
- **2**. Determine the value of the variable that satisfies the equation 8n 3(4n + 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.
$$\frac{(6n^2d^3)^3}{36n^5d^7}$$

Solve; use our rhymes to describe each step.

$$x^2 = \frac{576}{324}$$

- 5. Joanna has a new box that is a cube, but only knows that the length of one side is $5ab^3$ units. What is the volume of Joanna's new storage box?
- 6. Jupiter has a diameter of $1.43 \cdot 10^5 \, km$, and Mars' diameter is $6.79 \cdot 10^3 \, km$. How many times larger is Jupiter's diameter to Mars' diameter?