

Name: _____

1. Solve for the unknown. Format your answers such that they are presentable.

(a) $3y = 9x - 3$

Answer: _____

(b) $5x - 8x = x + 10$

Answer: _____

2. Calvin and chase are eating grapes. Calvin eats 2 grapes a second and Chase eats grapes twice as fast as Calvin. How long would it take them to eat 200 grapes?

Answer: _____

3. Nerves are cells in a human body that pass information by conducting electric pulses. Different types of nerves conduct the electric pulses at different speeds. The typical conducting speed for a nerve with warmth receptors (that senses heat) is 2 m/s. The typical conducting speed for a nerve with pain receptors is 30 m/s. Assuming that you are 1.65 m tall:

(a) Estimate how long would it take you to know if you step on a lego piece.

Answer: _____

(b) Estimate how long would it take you to know if you step on ice.

Answer: _____