Lesson 33 Problem Set

Name ___________________________ Date ____________________

1. Ms. Hayes has \(\frac{1}{2}\) liter of juice. She distributes it equally to 6 students in her tutoring group.
   a. How many liters of juice does each student get?
   b. How many more liters of juice will Ms. Hayes need if she wants to give each of the 24 students in her class the same amount of juice found in Part (a)?

2. Lucia has 3.5 hours left in her workday as a car mechanic. Lucia needs \(\frac{1}{2}\) of an hour to complete one oil change.
   a. How many oil changes can Lucia complete during the rest of her workday?
   b. Lucia can complete two car inspections in the same amount of time it takes her to complete one oil change. How long does it take her to complete one car inspection?
   c. How many inspections can she complete in the rest of her workday?
3. Carlo buys $14.40 worth of grapefruit. Each grapefruit costs $0.80.
   a. How many grapefruits does Carlo buy?
   b. At the same store, Kahri spends one-third as much money on grapefruits as Carlo. How many grapefruits does she buy?

4. Studies show that a typical giant hummingbird can flap its wings once in 0.08 of a second.
   a. While flying for 7.2 seconds, how many times will a typical giant hummingbird flap its wings?
   b. A ruby-throated hummingbird can flap its wings 4 times faster than a giant hummingbird. How many times will a ruby-throated hummingbird flap its wings in the same amount of time?
5. Create a story context for the following expression.

\[ \frac{1}{3} \times (20 - 3.20) \]

6. Create a story context about painting a wall for the following tape diagram.