Problem Solving

Mixed Numbers and Improper Fractions

Write the correct answer.

1. If stretched end-to-end, the total length of the blood vessels inside your body could wrap around Earth’s equator \( \frac{5}{2} \) times! Write this fact as a mixed number.

2. In 2000, the average 12-year-old child in the United States earned an allowance of 9 dollars and \( \frac{7}{25} \) cents a week. Write this amount as an improper fraction and a decimal.

3. The normal body temperature for a rattlesnake is between 53\( \frac{3}{5} \)°F and 64\( \frac{2}{5} \)°F. Write this range as improper fractions.

4. An astronaut who weighs 250 pounds on Earth would weigh 41\( \frac{1}{2} \) pounds on the moon. Write the astronaut’s moon weight as an improper fraction.

5. Adult bees only eat nectar, the substance in flowers used to make honey. A bee could fly 4 million miles on the energy it would get from eating \( \frac{9}{2} \) liters of nectar. Write this amount of nectar as a mixed number.

6. A professional baseball can weigh no less than \( \frac{45}{9} \) ounces and no more than \( \frac{21}{4} \) ounces. Write this range as mixed numbers.

7. Betty needs a piece of lumber that is \( \frac{14}{3} \) feet long. Which size should she look for at the hardware store?
   - A 3\( \frac{1}{3} \) feet
   - B 3\( \frac{1}{4} \) feet
   - C 4\( \frac{2}{3} \) feet
   - D 4\( \frac{1}{4} \) feet

8. What operations are used to change a mixed number to an improper fraction?
   - F multiplication and addition
   - G division and subtraction
   - H division and addition
   - J multiplication and subtraction

Circle the letter of the correct answer.