

1. **Vocabulary** Is a repeating decimal a rational number? Explain.

2. Which fraction is equivalent to $0.1\bar{6}$?

(A) $\frac{1}{16}$

(C) $\frac{1}{6}$

(B) $\frac{16}{100}$

(D) $\frac{1}{3}$

3. Is $\sqrt{10}$ greater than, less than, or equal to 5?

Because 10 lies between two consecutive perfect squares, _____ and _____, $\sqrt{10}$ is located between the square roots of these two numbers. This means that $\sqrt{10}$ is located between _____ and _____, so $\sqrt{10}$ is less than 5.

4. Solve the equation $x^2 = 5$.

5. Cassie has a small cube-shaped box. Its volume is 64 cubic centimeters. What is the area of one face of the box?

6. Write $2.\bar{1}$ as a mixed number. Show your work.