

Unit 2 Test

1. Which of the following expressions are greater than 10 and less than 14? Select three that apply.

- A.  $\sqrt{125}$
- B.  $\sqrt{50}$
- C.  $\sqrt{101}$
- D.  $\sqrt{140}$

2. Which of the following numbers are rational? Select two that apply.

- A.  $\sqrt{4}$
- B.  $\sqrt{6}$
- C.  $\sqrt{9}$
- D.  $\sqrt{7}$

3. Which of the following decimals is equal to  $5 \frac{1}{10}$ ? Choose two that apply.

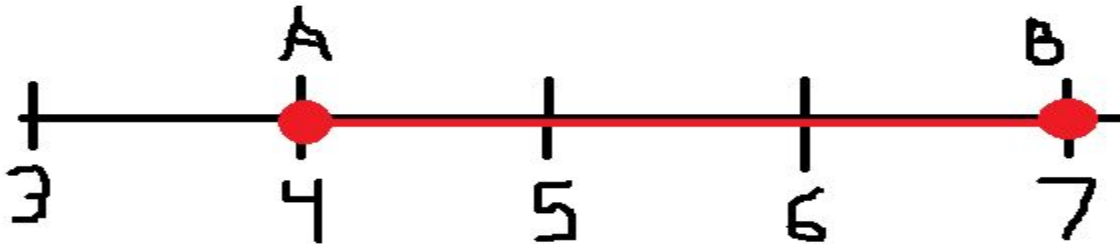
- A. 5.1111111111111111
- B. 5.1
- C. 5.01
- D. 50.1
- E. 5.10

4. Write a fraction equivalent to  $.\overline{4}$  Use only whole numbers for the numerator and denominator.

5. What makes a number irrational? Explain your reasoning.

6. Does the number 17 have a decimal expansion?

7. Is  $\sqrt{43}$  located between points A and B on the number line below?



- A. No, because it is not greater than 4 and less than 7.
- B. No, because it is not greater than 16 and less than 49.
- C. Yes, because it is greater than 4 and less than 7.
- D. Yes, because it is greater than 16 and less than 49.