

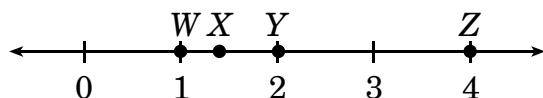
1. A surveyor determined that the distance across a pond is $\sqrt{2,255}$ feet. **Approximately**, what is this distance?

A 22.6 ft
 B 25.0 ft
 C 47.5 ft
 D 1,127.5 ft

2. The area of a square is 800 square meters. The length of its side is between which two numbers?

A 27 m and 28 m
 B 28 m and 29 m
 C 200 m and 201 m
 D 400 m and 401 m

3. Which point represents $\sqrt{2}$ on the number line below?



A W
 B X
 C Y
 D Z

4. Which number below is an irrational number?

A $\frac{2}{3}$
 B 2.35
 C $\sqrt{25}$
 D $\sqrt{5}$

5. Which number has the greatest value?

A 1.5
 B $\frac{30}{100}$
 C $\sqrt{\frac{1}{9}}$
 D $\sqrt{3}$

6. Which choice lists the three lengths in order from greatest to least?

A 4.5, 3, $\sqrt{18}$
 B $\sqrt{18}$, 4.5, 3
 C 4.5, $\sqrt{18}$, 3
 D 3, 4.5, $\sqrt{18}$

7. Which choice is more than 12 but less than 13?
- A $\sqrt{170}$
- B $\sqrt{150}$
- C $\sqrt{144}$
- D $\sqrt{140}$
8. The area of a triangle is 51 square meters. The height is one-half the length of the base. What is the **approximate** height of the triangle?
- A 7.0 meters
- B 7.1 meters
- C 14.0 meters
- D 14.3 meters

9. The drama club is selling tickets to a play for \$10 each. The cost to rent the theater and costumes is \$500. In addition, the printers are charging \$1 per ticket to print the tickets. How many tickets must the drama club sell to make a profit?
- A 54
- B 55
- C 56
- D 57

End of Goal 1 Sample Items

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Math Goal 1
Sample Items Key Report

- 9** **Objective:** **1.02**
Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.
Thinking Skill: Analyzing **Correct Answer:** C