

TEST NAME: **Cumulative Review Number Systems**
TEST ID: **549367**
GRADE: **08**
SUBJECT: **Mathematics**
TEST CATEGORY: **School Assessment**

05/01/15, Cumulative Review Number Systems

Student: _____

Class: _____

Date: _____

1. Which fraction is equivalent to the decimal $0.\overline{45}$?

A. $\frac{9}{20}$

B. $\frac{5}{11}$

C. $\frac{20}{9}$

D. $\frac{11}{5}$

2. Which equation has an irrational solution?

A. $x^2 = 2$

B. $x^2 = 81$

C. $x^3 = 27$

D. $x^3 = 64$

3. Which number is irrational?

A. 3.14

B. $\frac{\sqrt{2}}{1}$

C. $-\frac{1}{3}$

D. $-\sqrt{16}$

4. Which fraction is equivalent to $0.\overline{63}$?

A. $\frac{19}{300}$

B. $\frac{7}{110}$

C. $\frac{9}{13}$

D. $\frac{7}{11}$

5. Which is an irrational number?

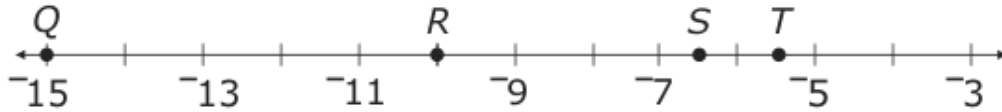
A. $\sqrt{49}$

B. 5.6

C. $\frac{\sqrt{10}}{2}$

D. $\frac{4}{5}$

6. Which letter is located at **about** $-\sqrt{30}$ on the number line below?



- A. Q
B. R
C. S
D. T
7. What is the **approximate** value of $\sqrt{63} + \sqrt{37}$?
- A. 10
B. 14
C. 49
8. Sam made a square sign with an area of 410 square inches. What is the **approximate** perimeter of the square sign?
- A. 40 inches
B. 80 inches
C. 100 inches
D. 200 inches
9. The value of 3 times the square root of 8 is between which two consecutive integers?
- A. 6 and 7
B. 7 and 8
C. 8 and 9
D. 9 and 10

10. The formula used to determine the speed of a car before the brakes are applied is $s = \sqrt{20d}$, where s equals the speed of the car in miles per hour, and d equals the braking distance. The braking distance for a car was 60 feet. What was the **approximate** speed of the car before the brakes were applied?
- A. 15 mph
 - B. 30 mph
 - C. 35 mph
 - D. 40 mph