

TEST NAME: **Number Systems EOG Review Stations**  
TEST ID: **2479031**  
GRADE: **08 - Eighth Grade**  
SUBJECT: **Mathematics**  
TEST CATEGORY: **My Classroom**

Student: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

1. **Which value below is the GREATEST?**

A.  $\sqrt{10}$

B.  $\frac{8}{3}$

C.  $\sqrt{3}$

D.  $\frac{11}{12}$

2. A square table has an area of 60 square feet. Between which two consecutive integers is the length of the table?

A. 6 feet and 7 feet

B. 7 feet and 8 feet

C. 8 feet and 9 feet

D. 9 feet and 10 feet

3. **Which of the following numbers is irrational?**

A.  $\sqrt{16}$

B.  $\sqrt{5}$

C.  $\sqrt{25}$

D.  $\sqrt{100}$

4. **Which phrase does NOT describe a rational number?**

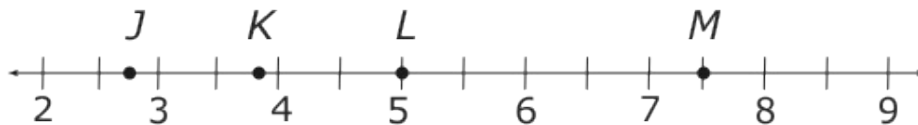
A. integer number

B. repeating decimal

C. terminating decimal

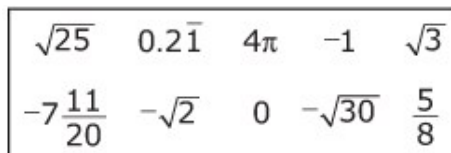
D. non-repeating, non-terminating decimal

5. Which letter is located at **approximately**  $\sqrt{15}$  on the number line below?

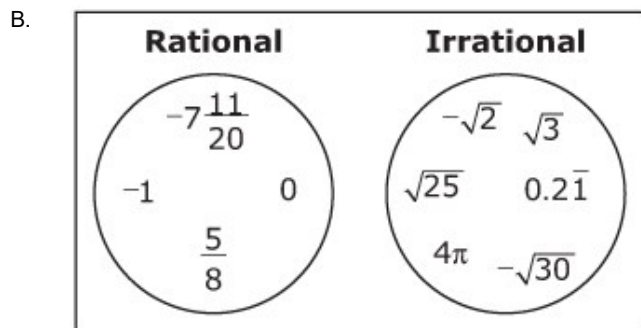
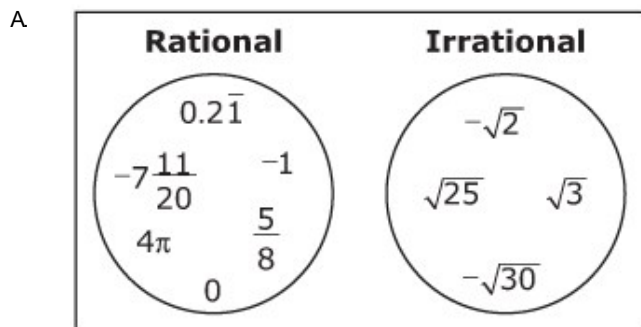


- A. *J*
- B. *K*
- C. *L*
- D. *M*

6. A student placed the ten numbers shown into a Venn diagram.



Which Venn diagram shows the correct relationships for the numbers?



C.

Rational	Irrational
$0.2\bar{1}$ $-7\frac{11}{20}$ $-1$ $\sqrt{25}$ $\frac{5}{8}$ $0$	$-\sqrt{2}$ $4\pi$ $\sqrt{3}$ $-\sqrt{30}$

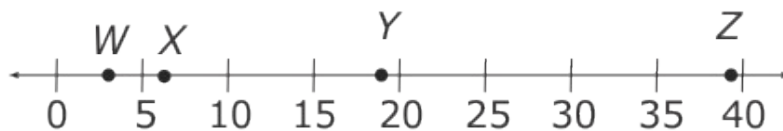
D.

Rational	Irrational
$0.2\bar{1}$ $\sqrt{3}$ $4\pi$ $\sqrt{25}$ $\frac{5}{8}$ $0$	$-\sqrt{2}$ $-7\frac{11}{20}$ $-1$ $-\sqrt{30}$

7. Which of the following shows the numbers arranged from LEAST to GREATEST?

- A.  $\sqrt{2}, \sqrt{3}, 2, 3$
- B.  $3, 2, \sqrt{3}, \sqrt{2}$
- C.  $\sqrt{2}, 2, \sqrt{3}, 3$
- D.  $2, \sqrt{2}, 3, \sqrt{3}$

8. Which point is located at **approximately**  $\sqrt{39}$  on the number line below?



- A. W
- B. X
- C. Y
- D. Z

9. The value of  $\sqrt{63}$  is between what two numbers?
- A. 62 and 64
  - B. 31 and 32
  - C. 7 and 8
  - D. 3 and 4
10. The value of  $\sqrt{51}$  is between which two numbers?
- A. between 50 and 52
  - B. between 25 and 26
  - C. between 7 and 8
  - D. between 3 and 4
11. Which number is greater than 4 but less than 9?
- A.  $\sqrt{16}$
  - B.  $\sqrt{30}$
  - C.  $\sqrt{81}$
  - D.  $\sqrt{90}$
12. What is the **approximate** value of  $\sqrt{99}$ ?
- A. 10
  - B. 25
  - C. 50
13. The value of  $\sqrt{33}$  is between what two numbers?
- A. between 3 and 4
  - B. between 5 and 6
  - C. between 16 and 17
  - D. between 32 and 34

14. A square tile has an area of 75 square inches. Which is the BEST estimate for the length of one side of the tile?
- A. between 6 and 8 inches
  - B. between 8 and 10 inches
  - C. between 37 and 50 inches
  - D. between 64 and 81 inches

15. The square below has an area of 29 square units.



Which choice below is the BEST estimate of the side length of the square?

- A. more than 5 units but less than 6 units
- B. more than 7 units but less than 8 units
- C. more than 14 units but less than 15 units
- D. more than 25 units but less than 36 units