

TEST NAME: **Homework Review Math 8 Number Sense**
TEST ID: **1197557**
GRADE: **08 - Eighth Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **School Assessment**

09/14/16, Homework Review Math 8 Number Sense

Student: _____

Class: _____

Date: _____

1. 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
2. Which number below is between 8 and 10?
- A. $\sqrt[3]{343}$
 - B. $\sqrt[3]{1,100}$
 - C. $\sqrt{38}$
 - D. $\sqrt{77}$
3. Which number is an example of a rational number?

- A. $1.\overline{23}$
- B. π
- C. $\sqrt{10}$
- D. $\sqrt{18}$

4. Which number is an integer?

A. $-\frac{1}{2}$

B. $\sqrt{\frac{4}{9}}$

C. -0.5

D. $\sqrt{64}$

5. Inez was chosen by her teacher to find the integer that has a square root closest to 3 without going over and write it on the board. Which correct answer did Inez write on the board?

A. 6

B. 8

C. 10

D. 12

6. Which fraction is equivalent to $0.\overline{54}$?

A. $\frac{5}{9}$

B. $\frac{6}{11}$

C. $\frac{27}{50}$

D. $\frac{26}{48}$

7. What is $0.\overline{45}$ expressed as a fraction in lowest terms?

A. $\frac{9}{200}$

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

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

D. $\frac{5}{9}$

8. Which number is an irrational number?

A. $\sqrt{2}$

B. $\frac{24}{37}$

C. $\sqrt{225}$

D. $\frac{125}{100}$

9. Which of the following numbers is rational?

A. 0.31311...

B. $\sqrt{5}$

C. $\sqrt{16}$

D. $\sqrt{27}$

10. Which set of numbers only contains rational numbers?

A. $\left\{\frac{1}{2}, \frac{2}{3}, \sqrt{3}\right\}$

B. $\{0, 4, \sqrt{9}\}$

C. $\{5, \sqrt{6}, 7\}$

11. Which set of numbers contains only integers?

A. $\{-14, -0.3, 0, 2\}$

B. $\{-10, 3, 5, 2.75\}$

C. $\left\{0, 1, 2, \frac{21}{4}\right\}$

D. $\{\sqrt{1}, \sqrt{4}, \sqrt{25}, \sqrt{81}\}$

12. Which term applies to the number shown below, if it is a non-repeating, non-terminating decimal?

2.91547...

A. imaginary

B. irrational

C. rational

D. integer

13. Which number below is greater than 2 but less than 5?

A. $\sqrt{2}$

B. $\sqrt{5}$

C. $\sqrt{26}$

D. $\sqrt{40}$

14. The square root of 198 is between which two numbers?

A. 12 and 13

B. 13 and 14

C. 14 and 15

D. 15 and 16

15. Which fraction is equivalent to $0.\overline{15}$?

A. $\frac{5}{33}$

B. $\frac{3}{20}$

C. $\frac{1}{6}$

16. Which fraction is equivalent to $0.1\overline{3}$?

A. $\frac{13}{100}$

B. $\frac{33}{250}$

C. $\frac{2}{15}$

D. $\frac{1}{3}$