TEST NAME: **Number Systems EOG Review**
TEST ID: **2402980**
GRADE: **08 - Eighth Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

1. Which fraction is equivalent to $1.\overline{2}$?

   A. $\dfrac{13}{11}$

   B. $\dfrac{12}{11}$

   C. $\dfrac{12}{10}$

   D. $\dfrac{11}{9}$

2. Which number is an integer?

   A. $\dfrac{^-1}{2}$

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

   C. $^-0.5$

   D. $\sqrt{64}$

3. Which set of numbers below contains only natural numbers?

   A. $0, 1, 8, 12$

   B. $4, 9, 18, 25$

   C. $^-2, 5, 7, 15$

   D. $\sqrt{4}, \sqrt{9}, \sqrt{12}, \sqrt{16}$

4. **Which number in the list is an irrational number?**

$$\frac{9}{4},\ -13^3,\ \sqrt{15},\ 1.52$$

A. 1.52

B. -13^3

C. $\frac{9}{4}$

D. $\sqrt{15}$

5. Which number is equivalent to the repeating decimal 0.242242242...?

A. $\dfrac{24}{100}$

B. $\dfrac{242}{999}$

C. $\dfrac{242}{1000}$

D. $\dfrac{2422}{9999}$

6. Which number is a natural number?

A. 1

B. 0

C. ⁻1

7. Which number below is an irrational number?

A. 3.14

B. $\sqrt{9}$

C. $\sqrt[3]{9}$

D. $0.\overline{3}$

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8. Which number is an irrational number?

   A. $\sqrt{2}$

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

   C. $\sqrt{225}$

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

9. Which number is an integer?

   A. $^-3.5$

   B. $\dfrac{^-2}{3}$

   C. $^-4$

10. Which number is an irrational number?

    A. $0.2\overline{5}$

    B. $\dfrac{1}{3}$

    C. $\sqrt{0.64}$

    D. $\sqrt{18}$

11. **Between which two integers does $\sqrt{55}$ lie?**

    A. 11 and 12

    B. 9 and 10

    C. 7 and 8

    D. 5 and 6

12. **The cube root of 7201 is between which pair of integers?**

   A. 19 and 20
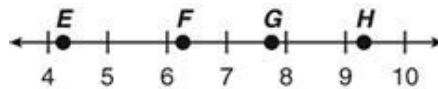   B. 24 and 25
   C. 36 and 37
   D. 84 and 85

13. Between which two numbers is $\sqrt{161}$ located?

   A. 12.0 and 12.2
   B. 12.3 and 12.5
   C. 12.6 and 12.8
   D. 12.9 and 13.1

14. **The value of $\sqrt{345}$ is between which two numbers?**

   A. 13 and 15
   B. 15 and 17
   C. 17 and 19
   D. 19 and 21

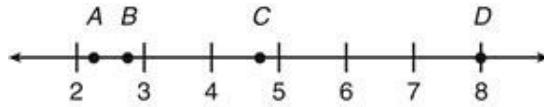15. **Which point on the number line represents $\sqrt{18}$?**

   A. E
   B. F
   C. G
   D. H

16. **The square root of 56 is between which two numbers?**

   A. 7 and 8
   B. 8 and 9
   C. 49 and 64
   D. 50 and 60

17. $\sqrt[3]{24}$ is closest to which point on the number line?

A. Point A

B. Point B

C. Point C

D. Point D

18. **The value of $\sqrt{31}$ is between what two numbers?**

A. between 3 and 4

B. between 5 and 6

C. between 15 and 16

D. between 30 and 32

19. Which number is located between 19 and 20 on a number line?

A. $\sqrt{298}$

B. $\sqrt{340}$

C. $\sqrt{391}$

D. $\sqrt{402}$

20. $\sqrt{136}$ is between which two numbers?

A. 9 and 10

B. 10 and 11

C. 11 and 12

D. 12 and 13

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

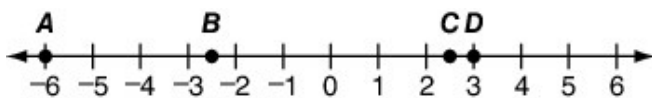A. $\sqrt{2}$

B. $\sqrt{5}$

C. $\sqrt{26}$

D. $\sqrt{40}$

22. The square root of 216 lies between which two integers?

A. 12 and 13

B. 13 and 14

C. 14 and 15

D. 15 and 16

23. **Which value is closest to** $\sqrt[3]{100}$ **?**

A. 3.0

B. 4.5

C. 10.0

D. 33.5

24. If $-\sqrt{6}$ is plotted on the number line below, which point **best** represents the correct location of that point?

A. point A

B. point B

C. point C

D. point D

25. **Which of the following numbers is closest to** $\sqrt{90}$?

    A. 45

    B. 30

    C. 12

    D. 10