The Number System Questions and Answers

1. Which answer is a solution to the inequality shown?

$$x\geq 8$$

1. $\sqrt{32}$ B. 2$\sqrt{8}$ C. $\sqrt[3]{8}$ D. 5$\sqrt{5}$
2. Order the numbers below from least to greatest.

$π$ $\sqrt{39}$ 7 $4\sqrt{5}$

1. $π$, $\sqrt{39}$, 7, $4\sqrt{5}$
2. $π$, $\sqrt{39}$, $4\sqrt{5}$, 7
3. $\sqrt{39}$, 7, $4\sqrt{5}$, $π$
4. 7, $4\sqrt{5}$, $π$, $\sqrt{39}$
5. Which number is irrational?
6. 1.6739 B. $\sqrt{14}$ C. $6.\overbar{23}$ D. $\frac{8π}{π}$
7. Which number is rational?
8. $π$ B. $\sqrt{5}$ C. -9 D. 2$\sqrt{6}$
9. Which number is an integer?
10. $\sqrt{16}$ B. $\sqrt{27}$ C. - $\sqrt{10}$ D. $\sqrt{117}$
11. Which is a proper classification of -9.21?
12. Rational and negative
13. Irrational and decimal
14. Irrational and negative
15. Rational and integer
16. Which is a proper classification of -6.789……?
17. Rational and whole
18. Rational and integer
19. Irrational and integer
20. Irrational and real
21. Tori has a goal to practice gymnastics 5 hours a week. The table below shows her practice schedule. How much time will she be short of her goal?

|  |  |
| --- | --- |
| Day of the Week  | Time Spent Practicing  |
| Monday | $\frac{5}{6}$ of an hour |
| Tuesday | $\frac{2}{3}$ of an hour |
| Wednesday | 1 hour and 15 minutes  |
| Thursday | * 1. our
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1. 3 hours B. 1 ½ hours C.2 hours D. 2 ½ hours
2. Nick and Anthony decided to paint the bonus room. Nick painted ¼ of the room and Anthony painted 0.4 of the room. What percent of the room was painted by Nick and Anthony?
3. 75% B. 65% C. 80% D. 18%
4. Which of the following answers describes the set of numbers that -64 belongs to?
5. Prime
6. Integers only
7. Irrational only
8. Both integers and rational
9. What is the distance between point A and B on the number line?



B

A

4.5

3.5

$$\sqrt{16}$$

$$\sqrt{9}$$

1. 2 units B. 7.25 units C. 1.25 units D. 5.5 units
2. Which is the largest number?
3. $2\sqrt{17}$ B. $3\sqrt{3}$ C. $4\sqrt{15}$ D. $5\sqrt{3}$
4. Mrs. Smith is measuring her bathroom floor, and measures the width as $\sqrt{26}$ feet. Approximately how many feet is the width of her bathroom?
5. 5 feet B. 4 feet C. 6.5 feet D. 5.5 feet
6. The eighth grade is selling tickets to a dance fundraiser. The tickets cost $10 each, the decorations cost $150 and the tickets cost $10 to print. How many tickets need to be sold to break even?
7. 15 B. 16 C. 10 D. 5
8. Which number is between 14 and 15?
9. $\sqrt{200}$ B. $\sqrt{190}$ C. $\sqrt{100}$ D. $\sqrt{228}$
10. What is the approximate value of $\sqrt{421}$
11. 15.2 B. 16.7 C. 40.8 D. 20.5
12. Which number is between 17 and 18?
13. $\sqrt[3]{64}$ B. $\sqrt{228}$ C. $4^{2}$ D. $\frac{35}{2}$
14. Which letter represents$-\sqrt{17}$?

C

D

B

A

1. Which number represents$ \sqrt{1}$?
2. 0.5 B. 1.1 C. 1.1 D. 1
3. Which answer order the numbers from greatest to least?
4. 3.8, $\frac{15}{4}$ , $\sqrt[3]{9}$, $\sqrt{15}$
5. $\sqrt{15}, $3.8, $\frac{15}{4}$ , $\sqrt[3]{9}$
6. $\sqrt{15}, $ $\frac{15}{4}$ , $\sqrt[3]{9}$, 3.8
7. 3.8, $\sqrt[3]{9}$, $\sqrt{15}$, $\frac{15}{4}$