

Unit 5: Rational or Irrational

Name: _____

Date: _____

1. Which represents an irrational number?
A. 0 B. $\frac{3}{4}$ C. $\sqrt{3}$ D. $\sqrt{4}$
2. Which number is rational?
A. $4\sqrt{2}$ B. $\sqrt{15}$ C. $\frac{1}{2}\sqrt{3}$ D. $\sqrt{16}$
3. Which is an irrational number?
A. 0 B. π C. $-\frac{1}{3}$ D. $\sqrt{9}$
4. Which represents a rational number?
A. π B. $\sqrt{16}$ C. $\sqrt{15}$ D. $\sqrt{\frac{100}{5}}$
5. Which is an irrational number?
A. 5.7 B. $\sqrt{3}$ C. $\frac{8}{11}$ D. $\sqrt{400}$
6. An example of an irrational number is
A. $5.\bar{3}$ B. $\sqrt{5}$ C. 0 D. $-\frac{11}{6}$
7. Which does not represent a rational number?
A. $\frac{3}{2}$ B. $\sqrt{7}$ C. $\sqrt{16}$ D. $0.\bar{29}$
8. If $x = 13$, then the value of $\sqrt{x-5}$ is
A. a rational number
B. an irrational number
C. undefined
D. an integer
9. Which is a rational number?
A. $\sqrt{13}$ B. π C. $\sqrt{3}$ D. $\sqrt{0.16}$
10. Which is a rational number?
A. $\sqrt{7}$ B. $\sqrt{18}$ C. $\sqrt{49}$ D. $\sqrt{20}$
11. Which expression represents an irrational number?
A. π B. $-\frac{2}{3}$ C. $0.\bar{3}$ D. $\sqrt{9}$
12. Which expression represents a rational number?
A. π B. $\sqrt{3}$ C. $\sqrt{7}$ D. $\sqrt{16}$

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13. Which number is irrational?

- A. $2.\bar{6}$ B. $\sqrt{100}$ C. $\frac{3}{4}$ D. $\sqrt{14}$

14. Which set contains the number π ?

- A. integers B. rational numbers
C. natural numbers D. irrational numbers

15. Which number below is irrational?

$$\sqrt{\frac{4}{9}}, \sqrt{20}, \sqrt{121}$$

Why is the number you chose an irrational number?

16. Which number is rational?

- A. \neq B. $\frac{5}{4}$ C. $\sqrt{7}$ D. $\sqrt{\frac{3}{2}}$

17. Which is a rational number?

- A. $\sqrt{8}$ B. π C. $5\sqrt{9}$ D. $6\sqrt{2}$

18. Which expression is rational?

- A. π B. $\sqrt{\frac{1}{2}}$ C. $\sqrt{3}$ D. $\sqrt{\frac{1}{4}}$

19. Which is an irrational number?

- A. $\sqrt{9}$ B. 3.14 C. $\sqrt{3}$ D. $\frac{3}{4}$

20. Which is an irrational number?

- A. 0 B. π C. $-\frac{1}{3}$ D. $\sqrt{9}$

21. Which expression represents an irrational number?

- A. $\sqrt{2}$ B. $\frac{1}{2}$ C. 0.17 D. 0

22. Which number is irrational?

- A. $\sqrt{9}$ B. $\sqrt{8}$
C. 0.3333 D. $\frac{2}{3}$

23. Given: $\frac{\sqrt{99}}{11}$, $\sqrt{164}$, $\sqrt{196}$

Identify the expression that is a rational number and explain why it is rational.

24. Which is an irrational number?

- A. 0.3 B. $\frac{3}{8}$ C. $\sqrt{49}$ D. π

25. Which number is irrational?

- A. $\frac{5}{4}$ B. $0.\bar{3}$ C. $\sqrt{121}$ D. π

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1.
Answer: C

2.
Answer: D

3.
Answer: B

4.
Answer: B

5.
Answer: B

6.
Answer: B

7.
Answer: B

8.
Answer: B

9.
Answer: D

10.
Answer: C

11.
Answer: A

12.
Answer: D

13.
Answer: D

14.
Answer: D

15.
Answer: $\sqrt{20}$

16.
Answer: B

17.
Answer: C

18.
Answer: D

19.
Answer: C

20.
Answer: B

21.
Answer: A

22.
Answer: B

23.
Answer: $\sqrt{196}$

24.
Answer: D

25.
Answer: D