

Classifying Numbers

Directions: Simplify each number or expression first. Then classify it in as many ways as possible using the five categories listed below:

Integer

Irrational

Natural

Rational

Whole

1. 23

2. 0

3. -8

4. $\frac{3}{5}$

5. -2.75

6. π

Integer

Irrational

Natural

Rational

Whole

7. $\sqrt{49}$

8. $\sqrt{10}$

9. $4.272727\ldots$

10. $1.01001000100001\ldots$

11. $-\sqrt{81}$

12. $\frac{12}{3}$

13. 5.0

Integer

Irrational

Natural

Rational

Whole

14. 0.125

15. $-0.333\dots$

16. $\frac{-18}{6}$

17. $\frac{\sqrt{144}}{3}$

18. $\frac{42}{56}$

19. $\sqrt{50}$

20. $-\sqrt{7}$