

Practice 1-3**Exploring Real Numbers**

Name the set(s) of numbers to which each number belongs.

1. -0.002 2. $12\frac{1}{2}$ 3. 8 4. 5π
5. $\sqrt{7}$ 6. -22 7. -3.4 8. $\sqrt{36}$

Decide whether each statement is *true* or *false*. If the statement is false, give a counterexample.

9. Every whole number is an integer. 10. Every integer is a whole number.
11. Every rational number is a real number. 12. Every multiple of 7 is odd.

Use $<$, $=$, or $>$ to compare.

13. -10.98 \square -10.99 14. $-\frac{1}{3}$ \square -0.3 15. $-\frac{11}{5}$ \square $-\frac{4}{5}$
16. $-\frac{1}{2}$ \square $-\frac{5}{10}$ 17. $-\frac{3}{8}$ \square $-\frac{7}{16}$ 18. $\frac{3}{4}$ \square $\frac{13}{16}$

Write in order from least to greatest.

19. $-\frac{8}{9}, -\frac{7}{8}, -\frac{22}{25}$ 20. $-3\frac{4}{9}, -3.45, -3\frac{12}{25}$ 21. $-\frac{1}{4}, -\frac{1}{5}, -\frac{1}{3}$
22. $-1.7, -1\frac{3}{4}, -1\frac{7}{9}$ 23. $-\frac{3}{4}, -\frac{7}{8}, -\frac{2}{3}$ 24. $2\frac{3}{4}, 2\frac{5}{8}, 2.7$

Determine which set of numbers is most reasonable for each situation.

25. the number of dolphins in the ocean
26. the height of a basketball player
27. the number of pets you have
28. the circumference of a compact disk

Find each absolute value.

29. $\left|\frac{3}{10}\right|$ 30. $|-327|$ 31. $|-3.46|$ 32. $\left|-\frac{1}{2}\right|$

33. Name the sets(s) of numbers to which each number in the table belongs. Choose among: whole numbers, integers, rational numbers, irrational numbers, and real numbers.

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