

Vocabulary and Concept Check

- VOCABULARY** How can you tell that a number is rational?
- WRITING** You have to write 0.63 as a fraction. How do you choose the denominator?

Tell whether the number belongs to each of the following number sets:
rational numbers, integers, whole numbers.

3. -5 4. $-2.\overline{16}$ 5. 12 6. 0

Tell whether the decimal is *terminating* or *repeating*.

7. $-0.4848\dots$ 8. -0.151 9. 72.72 10. $-5.2\overline{36}$

Practice and Problem Solving

Write the rational number as a decimal.

11. $\frac{7}{8}$ 12. $\frac{5}{11}$ 13. $-\frac{7}{9}$ 14. $-\frac{17}{40}$
15. $1\frac{5}{6}$ 16. $-2\frac{17}{18}$ 17. $-5\frac{7}{12}$ 18. $8\frac{15}{22}$

19. **ERROR ANALYSIS** Describe and correct the error in writing the rational number as a decimal.

~~$-\frac{7}{11} = -0.6\overline{3}$~~

Write the decimal as a fraction or mixed number in simplest form.

20. -0.9 21. 0.45 22. -0.258 23. -0.312
24. -2.32 25. -1.64 26. 6.012 27. -12.405

Order the numbers from least to greatest.

28. $-\frac{3}{4}, 0.5, \frac{2}{3}, -\frac{7}{3}, 1.2$ 29. $\frac{9}{5}, -2.5, -1.1, -\frac{4}{5}, 0.8$ 30. $-1.4, -\frac{8}{5}, 0.6, -0.9, \frac{1}{4}$
31. $2.1, -\frac{6}{10}, -\frac{9}{4}, -0.75, \frac{5}{3}$ 32. $-\frac{7}{2}, -2.8, -\frac{5}{4}, \frac{4}{3}, 1.3$ 33. $-\frac{11}{5}, -2.4, 1.6, \frac{15}{10}, -2.25$

34. **COINS** You lose one quarter, two dimes and two nickels.

- Write the amount as a decimal.
- Write the amount as a fraction in simplest form.

35. **HIBERNATION** A box turtle hibernates in sand at $-1\frac{5}{8}$ feet. A spotted turtle hibernates at $-1\frac{16}{25}$ feet. Which turtle is deeper?