✓ Vocabulary and Concept Check

MATCHING Match the decimal with its equivalent percent.

1. 0.42
2. 4.02
3. 0.042
4. 0.0402

A. 4.02%   **B.** 42%   **C.** 4.2%   **D.** 402%

5. **OPEN-ENDED** Write three different decimals that are between 10% and 20%.

6. **WHICH ONE DOESN'T BELONG?** Which one does *not* belong with the other three? Explain your reasoning.

| 70% | 0.7 | $\frac{7}{10}$ | 0.07 |

✎ Practice and Problem Solving

Write the percent as a decimal.

7. 78%
8. 55%
9. 18.5%

10. 57.4%
11. 33%
12. 9%

13. 47.63%
14. 91.25%
15. 166%

16. 217%
17. 0.06%
18. 0.034%

Write the decimal as a percent.

19. 0.74
20. 0.52
21. 0.89

22. 0.768
23. 0.99
24. 0.49

25. 0.487
26. 0.128
27. 3.68

28. 5.12
29. 0.0371
30. 0.0046

31. **ERROR ANALYSIS** Describe and correct the error in writing 0.86 as a percent.

✗ 0.86 = 00.86 = 0.0086%

32. **MUSIC** Thirty-six percent of the songs on your MP3 player are pop songs. Write this percent as a decimal.

33. **CAT** About 0.34 of the length of a cat is its tail. Write this decimal as a percent.

34. **COMPUTER** Write the percent of free space on the computer as a decimal.

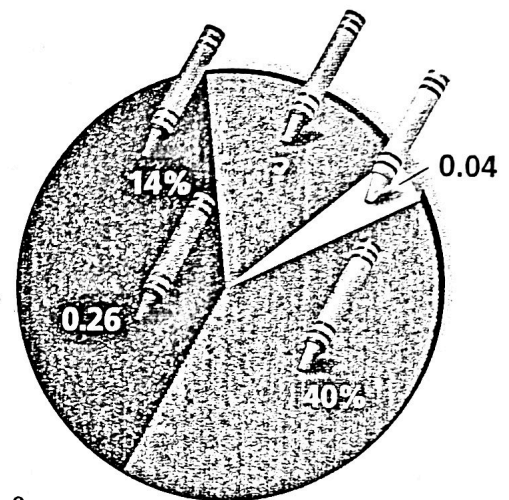| Volume	Capacity	Free Space	% Free Space
🖥 (C:)	149 GB	133 GB	89 %

Car: 20% School bus: 48% Bicycle: 8%

a. Write the percents as decimals.

b. Write the percents as fractions.

c. What percent of students use another method to travel to school?

d. **RESEARCH** Make a bar graph that represents how the students in your class travel to school.

39. ELECTIONS In an election, the winning candidate receives 60% of the votes. What percent of the votes does the other candidate receive?

40. COLORS Students in a class were asked to tell their favorite color.

Favorite Color

a. What percent said red, blue, or yellow?

b. How many times more students said red than yellow?

c. Use two methods to find the percent of students who said green. Which method do you prefer?

0.04

14%

0.26

40%

41. Problem Solving In the first 42 Super Bowls, $0.1\overline{6}$ of the MVPs (most valuable players) were running backs.

a. What percent of the MVPs were running backs?

b. What fraction of the MVPs were *not* running backs?

Fair Game Review What you learned in previous grades & lessons

Write the decimal as a fraction or mixed number in simplest form.
(Skills Review Handbook)

42. 0.46

43. 0.31

44. 2.2

45. 4.32

Simplify the expression. (Section 3.1)

46. $4x + 3 - 9x$

47. $5 + 3.2n - 6 - 4.8n$

48. $2y - 5(y - 3)$

49. $-\frac{1}{2}(8b + 3) + 3b$

50. MULTIPLE CHOICE Ham costs $4.48 per pound. Cheese costs $6.36 per pound. You buy 1.5 pounds of ham and 0.75 pound of cheese. How much more do you pay for the ham? (Skills Review Handbook)

(A) $1.41

(B) $1.95

(C) $4.77

(D) $6.18