



Basic Skills Practice

Decimals and Percents, Part 1

You change a decimal to a percent by multiplying the decimal by 100 and adding a percent sign.

Example 1: Multiplying by 100 moves the decimal point two places to the right.

$$0.34 \times 100 = 34, \text{ so } 0.34 = 34\%$$

You change a percent to a decimal by dividing the percent by 100 and omitting the percent sign.

Example 2: Dividing by 100 moves the decimal point two places to the left.

$$25 \div 100 = 0.25, \text{ so } 25\% = 0.25$$

Write each decimal as a percent.

1. 0.05 _____

2. 0.22 _____

3. 0.75 _____

4. 0.17 _____

5. 0.41 _____

6. 0.03 _____

Write each percent as a decimal.

7. 82% _____

8. 37% _____

9. 7% _____

10. 55% _____

11. 3% _____

12. 68% _____

Write a percent for each decimal.

13. 0.544 _____

14. 0.0065 _____

15. 0.085 _____

16. 0.105 _____

17. 0.014 _____

18. 1.75 _____

Write a decimal for each percent.

19. 3.4% _____

20. 17.8% _____

21. 100% _____

22. 83% _____

23. 0.16% _____

24. 755.2% _____

Solve each problem.

25. What is 5.7% written as a decimal? _____

26. What is the correct way to write 0.75 as a percent? _____



Basic Skills Practice

Decimals and Percents, Part 2

Read each question and circle the best answer.

1. 0.50 written as a percent is—
 - A 0.50%
 - B 5%
 - C 50%
 - D 500%

2. The percent for 0.162 is—
 - F 162%
 - G 16.2%
 - H 1.62%
 - I 0.162%

3. Approximately 0.21 of the Earth's atmosphere is oxygen. What percent of the Earth's atmosphere is oxygen?
 - A 210%
 - B 21%
 - C 2.1%
 - D 0.21%

4. The decimal for 103% is—
 - F 0.103
 - G 1.03
 - H 10.3
 - I 10.5

5. A company estimates that its profit for a year is 20% of its sales for that year. What is 20% written as a decimal?
 - A 0.12
 - B 0.2
 - C 0.02
 - D 0.002

6. Of the students interviewed, 55% prefer sausage pizza. What is this percent written as a decimal?
 - F 55.0
 - G 5.5
 - H 0.55
 - I 0.50

7. About 0.03 of the Earth's water is fresh water. What percent is fresh water?
 - A 30%
 - B 3%
 - C 0.3%
 - D $\frac{1}{3}\%$

Solve each problem.

8. Shireen's family is buying a more efficient air conditioner. It will use 23.5% less energy. What is this percent written as a decimal? _____

9. A new word-processing program is supposed to be more powerful and increase productivity. It is more powerful by a factor of 0.365. What is this written as a percent? _____

10. The Channel 14 weather forecast announced that the probability of rain tomorrow is 60%. What is the correct way to express this percentage as a decimal? _____