

Practice

For use with pages 340–344

Write the decimal as a percent.

1. 0.41

2. 0.93

3. 0.01

4. 3

5. 0.0079

6. 0.061

Write the percent as a decimal.

7. 5%

8. 23%

9. 89%

10. 246%

11. 105.8%

12. 0.073%

13. You are reading a book that has 560 pages. You have read about $\frac{11}{20}$ of the book. What percent of the book have you read?

Write the fraction as a percent.

14. $\frac{19}{30}$

15. $\frac{8}{15}$

16. $\frac{27}{40}$

17. $\frac{15}{9}$

18. $\frac{17}{8}$

19. $\frac{13}{6}$

Practice

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Find the percent of the number.

20. 45% of 18

21. 32% of 110

22. 102% of 150

23. 205% of 40

24. 0.25% of 300

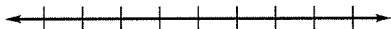
25. 0.361% of 500

26. In 2002, the world population was about 6,234,250,000. In 2002, the population of Europe was about 11.6% of the world's total population. About how many people lived in Europe in 2002?

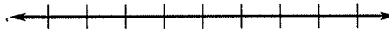
27. A bag contains a total of 25 marbles. The bag contains white, yellow, and red marbles. You randomly select one marble from the bag. The probability that you select a red marble is 16%. How many red marbles are in the bag?

Use a number line to order the numbers from least to greatest.

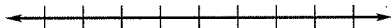
28. 248%, 2.56, $\frac{49}{20}$, 2.51, $\frac{127}{50}$



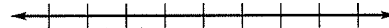
29. 0.0041, $\frac{19}{5000}$, 0.45%, $\frac{7}{2000}$, 0.042



30. 170%, $\frac{41}{25}$, 2, 168%, $\frac{89}{50}$



31. 0.0093, $\frac{6}{625}$, 0.094, 0.91%, $\frac{19}{2000}$

**Evaluate the expression when $m = 25$.**

32. $m\%$ of 70

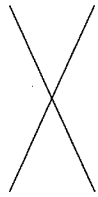
33. 3% of m

34. 130% of m

Practice

For use with pages 345–349

1. Describe and correct the error in using the percent equation to find what percent of 125 is 82.



$$a = p\% \cdot b$$

$$82 = p\% \cdot 125$$

$$\frac{82}{125} = p\%$$

$$0.656\% = p\%$$

Use the percent equation to answer the question.

2. What number is 92% of 115?
3. What number is 35% of 80?
4. What number is 21% of 60?
5. What number is 6% of 25?
6. What percent of 70 is 42?
7. What percent of 325 is 78?
8. What percent of 152 is 95?
9. What percent of 315 is 126?
10. 88 is 32% of what number?
11. 49 is 35% of what number?
12. 124 is 80% of what number?
13. 82 is 4% of what number?

Practice

For use with pages 345–349

14. A car salesperson earns 1.5% commission on every car sold. The salesperson sells a car for \$22,500. What is the commission?
15. At the concession stand of a school football game, sandwiches cost \$1.50 and a bottle of water costs \$.90. The school sells 40 sandwiches and 80 bottles of water.
- How much money was made from selling sandwiches? Bottles of water?
 - What percent of the money came from sales of sandwiches?
 - What percent of the concessions sold was bottles of water?
16. Due to a membership drive for a public television station, the current membership is 125% of what it was a year ago. The current membership is 1200. How many members did the station have last year?
17. Randal answers 96 out of 120 questions correctly on a science exam. What percent of the questions did Randal answer correctly?

Use the percent equation to answer the question when $n = 55$.

18. What is $(n - 5)\%$ of 150?
19. What percent of 900 is $(n + 20)$?
20. $(3n)$ is 20% of what number?
21. What is $(2n)\%$ of 540?