

Vocabulary and Concepts

1. Draw a model that shows 90%.
2. Explain how to change a percent to a fraction.
Write the number as a fraction over 100. Change to simplest form.

Skills and Applications

Write each ratio as a fraction in simplest form.

3. 12 red blocks out of 20 blocks $\frac{3}{5}$ 4. 24 chips out of 144 chips $\frac{1}{6}$
5. **BIRDS** If a hummingbird flaps its wings 250 times in 5 seconds, how many times does a hummingbird flap its wings each second?
A hummingbird flaps its wings 50 times each second.

Solve each proportion.

6. $\frac{4}{6} = \frac{x}{15}$ $p = 32$ 7. $\frac{10}{p} = \frac{2.5}{8}$ $n = 1.5$ 8. $\frac{n}{1.3} = \frac{6}{5.2}$

$x = 10$

9. **GEOGRAPHY** On a map of Texas, the scale is 1 inch = 30 miles. Find the actual distance between Dallas and Houston if the distance between these cities on the map is 8 inches. The actual distance between Dallas and Houston is 240 miles.

Write each percent as a decimal and as a fraction in simplest form.

10. 42% 0.42; $\frac{21}{50}$ 11. 20% 0.2; $\frac{1}{5}$ 12. 4% 0.04; $\frac{1}{25}$ 13. 110% 1.1 ; $1 \frac{1}{10}$
14. Write $\frac{2}{5}$ as a percent. 40% 15. Write 0.8% as a decimal. 0.008

Express each decimal as a percent.

16. 0.3 30% 17. 0.87 87% 18. 0.149 14.9%

19. **MONEY** Ian used 35% of his allowance to buy a book. If Ian received \$20 for his allowance, how much did he use to buy the book? Ian used \$7 of his allowance to buy the book.
20. Find 60% of 35. 21 21. What is 2% of 50? 1

Estimate each percent.

22. 9.5% of 51 5 23. 49% of 26 13 24. 308% of 9 27

Standardized Test Practice

25. **MULTIPLE CHOICE** In which model is about 25% of the figure shaded?

