

Proportional Relationships

Percent

7.3.1 Percents

Use a 10-by-10-square grid to model each percent.

1. 14% 2. 98% 3. 36% 4. 28%

Write each percent as a fraction in simplest form.

5. 20% 6. 75% 7. 11% 8. 72%

9. 5% 10. 64% 11. 31% 12. 85%

13. Nikki must answer 80% of the questions on her final exam correctly to pass her class. Write 80% as a fraction in simplest form.

Write each percent as a decimal.

14. 44% 15. 13% 16. 29% 17. 51%

18. 60% 19. 92% 20. 7% 21. 87%

Proportional Relationships

Percent

22. Brett was absent 2% of the school year. Write 2% as a decimal.

7.3.2 Percents, Decimals, and Fractions

Write each decimal as a percent.

23. 0.6

24. 0.55

25. 0.34

26. 0.308

27. 0.62

Write each fraction as a percent.

28. $\frac{3}{5}$

29. $\frac{3}{10}$

30. $\frac{24}{25}$

31. $\frac{9}{20}$

32. $\frac{17}{20}$

33. $\frac{1}{8}$

34. $\frac{11}{16}$

35. $\frac{37}{50}$

36. $\frac{2}{5}$

37. $\frac{18}{45}$

38. About $\frac{1}{125}$ of the people in the United States have the last name *Johnson*. What percent of people in the United States have this last name?

Proportional Relationships

Percent

7.3.3 Percent Problems

39. Tamara collects porcelain dolls. Of the 24 dolls that she has, 25% have blond hair. How many of her dolls have blond hair?
40. Mr. Green has a garden. Of the 40 seeds he planted, 35% were vegetable seeds. How many vegetable seeds did he plant?
41. Kevin has mowed 40% of the lawn. If he has been mowing for 20 minutes, how long will it take him to mow the rest of the lawn?
42. Maggie ordered a painting. She paid 30% of the total cost when she ordered it, and she will pay the remaining amount when it is delivered. If she has paid \$15, how much more does she owe?
43. Find 22% of 130.
44. Find 78% of 350.
45. Find 28% of 65.

Proportional Relationships

Percent

Page [4 of 5]

46. Find 9% of 50.

47. Find 45% of 210.

48. Find 54% of 602.

7.3.4 Using Percents

49. Peter has a coupon for 15% off the price of any item in a sporting goods store. He wants to buy a pair of sneakers that are priced at \$36.99. About how much will the sneakers cost after the discount?
50. All DVDs are discounted 25% off the original price. The DVD that Marissa wants to buy was originally priced at \$24.98. About how much will the DVD cost after the discount?
51. Michael's breakfast bill came to \$7.65. He wants to leave a tip that is 15% of the bill. About how much should he leave for the tip?
52. Betty and her family went out for dinner. Their bill was \$73.82. Betty's parents left a tip that was 15% of the bill. About how much was the tip that they left?

Proportional Relationships

Percent

Page [5 of 5]

53. A computer game costs \$36.85. The sales tax rate is 6%. About how much will the total cost be for this computer game?
54. Irene is buying party supplies. The cost of her supplies is \$52.75. The sales tax rate is 5%. About how much will the total cost of her party supplies be?