

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%

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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?

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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.

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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?

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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?