

Chapter Test B

For use after Chapter 7

Write the percent as a fraction in simplest form, or write the fraction as a percent.

1. 32.5% 2. 20.4% 3. $\frac{3}{11}$

Find the percent of the number.

4. 50% of 85 5. 42% of 20
6. 16% of 105 7. 89% of 250

A computer randomly generates an integer from 1 to 16. Find the probability of the given event. Write your answer as a percent.

8. $P(2)$ 9. $P(\text{even number})$
10. $P(\text{factor of } 16)$
12. On a math test, you scored 69 points out of 75 total points. On your next math test, you scored 51 points out of 60 total points. For both tests combined, what was your score as a percent of the total points?

Write the percent as a decimal or the decimal as a percent.

13. 123.6% 14. 0.056%

Write the fraction as a percent.

16. $\frac{13}{2}$ 17. $\frac{7}{5}$

Find the percent of the number.

19. 16.5% of 60 20. 206% of 35
22. A candle factory made 4 million candles last year. Of those, 0.9% were defective. How many candles were defective?

Use a proportion or the percent equation to answer the question.

23. What number is 120% of 74?
25. 25.2 is 42% of what number?
27. What percent of 600 is 19?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
12. _____
13. _____
14. _____
16. _____
17. _____
19. _____
20. _____
22. _____
23. _____
25. _____
27. _____

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Use the percent equation to answer the question when $n = 40$.

29. What percent of 50 is n ?
30. What is $(n + 10)\%$ of 80?

Answers

29. _____
30. _____

Find the new amount.

33. Increase 75 by 52%.
35. Decrease 24 by 25%.
37. You bought a pair of jeans at an outlet store. You see the same jeans at another store for \$51, which is 36% more than you paid for them at the outlet store. How much did you pay for the jeans at the outlet store?

33. _____

35. _____

37. _____

38. _____

In Exercises 38–40, use the given information to find the total cost.

38. Food bill: \$32
Sales tax: 6%
Tip: 15%

41. _____

42. _____

43. _____

44. _____

In Exercises 41 and 42, use the given information to find the original price. Round your answer to the nearest cent.

45. _____

46. _____

41. Retail price: \$40
Markup percent: 85%
42. Sale price: \$199
Discount percent: 20%

43. A store marks up the wholesale price of an item by 42%. The retail price is \$75.97. What is the wholesale price?

Find the unknown quantity for an account that earns simple annual interest.

44. $A = \$530$, $P = ?$,
 $r = 4\%$, $t = 15$ years
45. $A = \$3360.50$, $P = \$2600$,
 $r = ?$, $t = 9$ years

46. You deposit \$4280 into a savings account that earns 1.75% interest compounded annually. Use a calculator to find the balance of the account after 8 years. Round your answer to the nearest cent.