

Percents



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1. A college writing seminar increased its size by 50% from the first to the second day. If the total number of students in the seminar on the second day was 15, how many students were in the class on the first day?

- A . 8
- B. 10
- C. 23
- D. 30

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2.A baker at a successful bakery makes three types of cupcakes: vanilla, red velvet, and double chocolate. On Wednesday, he made 18 vanilla cupcakes, which was 17% of the total amount of cupcakes he made. How many total cupcakes did the baker make on Wednesday?

- A. 35
- B. 54
- C. 94
- D. 106

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3. A movie fanatic has amassed a giant collection of home movies, some on DVD and others in the older VHS cassette mode. If the fanatic has 308 movies on DVD, which comprises 31.3% of the total collection, how many total movies are in the collection?

- A. 96
- B. 212
- C. 676
- D. 984

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4. Mr. Edwards hired a new employee to work in his bakeshop. In one hour, this employee burned 439 chocolate chip cookies, which represented 25% of all the cookies the employee burned in that day. How many cookies did the new employee burn in the course of the day?

- A. 110
- B. 351
- C. 549
- D. 1756

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5. A company has the goal of doubling their revenue from 32 million dollars to 64 million dollars over the next 2 years. If the company increases its revenue by 50% in the first year, by approximately what percentage must the company increase their revenue in the second year in order to reach their goal?

- A. 25%
- B. 33%
- C. 50%
- D. 100%

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6.A store holiday sale has an item marked down by \$10 with an additional discount of 25% of the new price. If the final price was \$36.27, what was the original?

- A. \$19.70
- B. \$48.36
- C. \$58.36
- D. \$61.93

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7. Allegra and Simeon were selling containers of cookie dough for a charity event. In the first week, Allegra sold 30% more than Simeon did. The following week, Allegra sold 12 containers of cookie dough, while Simeon sold none. If Allegra sold 40% more containers than Simeon did overall, how many did Simeon sell in total?

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8. Fabrizio went shopping on Tuesday and decided to purchase a pair of pants that is 15% off the regular price for the rest of the week. If he buys the pants on Tuesday, he will receive an additional 5% off. What percent would Tuesday's sale price be of the original price for the pants?

- A. 81%
- B. 85%
- C. 95%
- D. 105%

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9. A taxi ride cost a customer a total of \$13.73, which included 4% sales tax and then a \$1 surcharge. What was the subtotal before the surcharge and sales tax?

- A. \$0.51
- B. \$12.24
- C. \$13.24
- D. \$318.25

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10. In the United States House of Representatives, 12.2% of congresspeople are from the State of California. If there are 435 voting congresspeople, how many are not from California?

- A. 12.2
- B. 53
- C. 382
- D. 488

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11. At the beginning of the week, Josh had 32 computer games, 133% as many computer games than Peter had. By the end of the week, Josh gave Peter 25% of his computer games. How many computer games did Josh and Peter each have by the end of the week?

- A. Josh had 8 games; Peter had 24 games.
- B. Josh had 24 games; Peter had 8 games.
- C. Josh had 24 games; Peter had 32 games.
- D. Josh had 32 games; Peter had 24 games.

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12. On Monday, Harry had 75% as many toys as Teddy did. On Tuesday, after Harry acquired 32 more toys and Teddy acquired 15% more than he had on Monday, Harry had as many toys as Teddy did. How many toys did Harry have on Monday?

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13.Ivy is downloading a computer program from the Internet. After 8 minutes, the computer program is 35% downloaded. If the computer program continues to download at the current rate, about how much longer will it take for Ivy's computer to finish downloading the program?

- A. 12 minutes
- B. 15 minutes
- C. 18 minutes
- D. 23 minutes

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Baby name	Denis	Dimitri	Lea	Tanya
Frequency	13	27	125	400

14. The table above displays the number of babies per million babies born in 1985 with each of 4 names. In 1985, about what percentage of babies were named Lea or Dimitri?

- A. 0.000152%
- B. 0.0152%
- C. 0.98%
- D. 1.52%

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15. A high school's graduation rate is defined to be the percentage of the senior class that graduates. Last year 406 of Sagamore High School's 452 seniors graduated. This year the school expects the previous year's graduation rate to increase by approximately 2 percentage points. If there are 436 students in this year's senior class, which of the following best approximates the number of seniors that Sagamore High School expects to graduate this year?

- A. 390 students
- B. 400 students
- C. 410 students
- D. 420 students

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