Percents

**1.** Jessica purchased diamond earrings during the Jewelry Emporium's Semi-Annual Clearance Sale. If Jessica paid $142.50 for the earrings and the original price is $190.00, how much of a discount did she receive?

|  |  |
| --- | --- |
|  | **A.** 75% |

|  |  |
| --- | --- |
|  | **B.** 25% |

|  |  |
| --- | --- |
|  | **C.** 20% |

|  |  |
| --- | --- |
|  | **D.** 35% |

**2.** The value of a professional basketball player's autograph rose 10% in the last year. It is now worth $297.00. What was it worth a year ago?

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|  | **A.** $280.00 |

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|  | **B.** $270.00 |

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| --- | --- |
|  | **C.** $260.00 |

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|  | **D.** $290.00 |

**3.** An item is priced at $14.80. If the sales tax is 7%, what does the item cost including sales tax?

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| --- | --- |
|  | **A.** $30.64 |

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| --- | --- |
|  | **B.** $25.16 |

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| --- | --- |
|  | **C.** $15.84 |

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| --- | --- |
|  | **D.** $1.04 |

**4.** A pair of shoes usually sells for $56. If the shoes are 20% off, and sales tax is 5%, what is the total price of the shoes, including tax?

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| --- | --- |
|  | **A.** $47.04 |

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| --- | --- |
|  | **B.** $44.10 |

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| --- | --- |
|  | **C.** $47.60 |

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|  | **D.** $47.49 |

**5.** A CD usually sells for $13.00. If the CD is 30% off, and sales tax is 5%, what is the total price of the CD, including tax?

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| --- | --- |
|  | **A.** $8.87 |

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| --- | --- |
|  | **B.** $10.24 |

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| --- | --- |
|  | **C.** $9.56 |

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|  | **D.** $9.75 |

**6.** Antonio had his hair cut at the salon. After he returned home, he realized he had accidentally tipped the stylist 111% of the cost of the hair cut. If the hair cut cost $23.95, how much money was the stylist tipped?

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| --- | --- |
|  | **A.** $50.53 |

|  |  |
| --- | --- |
|  | **B.** $26.58 |

|  |  |
| --- | --- |
|  | **C.** $26.82 |

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| --- | --- |
|  | **D.** $27.69 |

**7.** Jane moved from a house with 45 square feet of closet space to an apartment with 27 square feet of closet space. What is the percentage decrease of Jane's closet space?

|  |  |
| --- | --- |
|  | **A.** 60% |

|  |  |
| --- | --- |
|  | **B.** 40% |

|  |  |
| --- | --- |
|  | **C.** 32% |

|  |  |
| --- | --- |
|  | **D.** 67% |

**8.** Last month, when Joe took his puppy to the veterinarian, the puppy weighed 6.2 pounds. This month, the puppy weighed 8.06 pounds. What is the percentage increase of the weight of the puppy?

|  |  |
| --- | --- |
|  | **A.** 2% |

|  |  |
| --- | --- |
|  | **B.** 30% |

|  |  |
| --- | --- |
|  | **C.** 23% |

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| --- | --- |
|  | **D.** 77% |

**9.** Seraphina is driving two hours to visit her family. For the first hour, she traveled at a speed of 63 miles per hour. Then, in the second hour, she traveled at a speed of 73 miles per hour. What is the percentage increase of Seraphina's speed? If necessary, round to the nearest tenth of a percent.

|  |  |
| --- | --- |
|  | **A.** 84.1% |

|  |  |
| --- | --- |
|  | **B.** 86.3% |

|  |  |
| --- | --- |
|  | **C.** 15.9% |

|  |  |
| --- | --- |
|  | **D.** 13.7% |

**10.** August hosted two dinner parties for his friends. Twenty guests attended the first party, and twenty-eight guests attended the second party. What is the percentage increase of the number of guests from the first party to the second party?

|  |  |
| --- | --- |
|  | **A.** 30% |

|  |  |
| --- | --- |
|  | **B.** 60% |

|  |  |
| --- | --- |
|  | **C.** 70% |

|  |  |
| --- | --- |
|  | **D.** 40% |

**11.** The price of a house is originally listed at $150,000. The owners are having a hard time selling it and decide to reduce the price to $115,500. What is the percentage decrease of the price of the house?

|  |  |
| --- | --- |
|  | **A.** 77% |

|  |  |
| --- | --- |
|  | **B.** 23% |

|  |  |
| --- | --- |
|  | **C.** 34.5% |

|  |  |
| --- | --- |
|  | **D.** 2.3% |

**12.** Dylan opened a credit card account with $650.00 of available credit. Now that he has made some purchases, Dylan's account only has $546.00 of available credit. What is the percentage decrease of the amount of available credit in Dylan's account?

|  |  |
| --- | --- |
|  | **A.** 16% |

|  |  |
| --- | --- |
|  | **B.** 84% |

|  |  |
| --- | --- |
|  | **C.** 19% |

|  |  |
| --- | --- |
|  | **D.** 12% |

**13.** In February, Alec had 1,521 visitors to his website. In March, he had 1,379 visitors to his website. What is the percentage decrease of the number of visitors to Alec's website from February to March? If necessary, round to the nearest tenth of a percent.

|  |  |
| --- | --- |
|  | **A.** 90.7% |

|  |  |
| --- | --- |
|  | **B.** 11.1% |

|  |  |
| --- | --- |
|  | **C.** 9.3% |

|  |  |
| --- | --- |
|  | **D.** 10.3% |

**14.** The cost of a jacket increased from $85.00 to $97.75. What is the percentage increase of the cost of the jacket?

|  |  |
| --- | --- |
|  | **A.** 12.75% |

|  |  |
| --- | --- |
|  | **B.** 85% |

|  |  |
| --- | --- |
|  | **C.** 15% |

|  |  |
| --- | --- |
|  | **D.** 1.5% |

**15.** Brian has reduced his cholesterol level by 7% by following a strict diet and regular exercise. If his original level was 260, what is his approximate cholesterol level now?

|  |  |
| --- | --- |
|  | **A.** 278 |

|  |  |
| --- | --- |
|  | **B.** 258 |

|  |  |
| --- | --- |
|  | **C.** 242 |

|  |  |
| --- | --- |
|  | **D.** 18 |

**16.** The price of a car has been reduced from $17,500 to $12,425. What is the percentage decrease of the price of the car?

|  |  |
| --- | --- |
|  | **A.** 29% |

|  |  |
| --- | --- |
|  | **B.** 2.9% |

|  |  |
| --- | --- |
|  | **C.** 50.75% |

|  |  |
| --- | --- |
|  | **D.** 71% |

**17.** A shirt originally cost $49.80, but it is on sale for $39.84. What is the percentage decrease of the price of the shirt? If necessary, round to the nearest percent.

|  |  |
| --- | --- |
|  | **A.** 16% |

|  |  |
| --- | --- |
|  | **B.** 25% |

|  |  |
| --- | --- |
|  | **C.** 80% |

|  |  |
| --- | --- |
|  | **D.** 20% |

**18.** In January, the depth of a lake was 906 feet. In August, the depth of the lake was 634.2 feet. What is the percentage decrease of the depth of the lake from January to August?

|  |  |
| --- | --- |
|  | **A.** 43% |

|  |  |
| --- | --- |
|  | **B.** 70% |

|  |  |
| --- | --- |
|  | **C.** 36% |

|  |  |
| --- | --- |
|  | **D.** 30% |

**19.** Tessa bought stock in a restaurant for $124.00. Her stock is now worth $184.76. What is the percentage increase of the value of Tessa's stock?

|  |  |
| --- | --- |
|  | **A.** 33% |

|  |  |
| --- | --- |
|  | **B.** 49% |

|  |  |
| --- | --- |
|  | **C.** 61% |

|  |  |
| --- | --- |
|  | **D.** 67% |

**20.** A company is expanding its building area from 18,000 square feet to 24,480 square feet. What is the percentage increase of the area of the building space?

|  |  |
| --- | --- |
|  | **A.** 36% |

|  |  |
| --- | --- |
|  | **B.** 64.8% |

|  |  |
| --- | --- |
|  | **C.** 3.6% |

|  |  |
| --- | --- |
|  | **D.** 64% |