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## SAMPLING OF BUSINESS MATH QUESTIONS FOUND ON TYPICAL CIVIL SERVICE EXAMINATIONS

1. Divide the largest number by the smallest number in this group of numbers and multiply the quotient by .03.

54 44 22 20 15 9

- a. 1.8
- b. 18
- c. .18
- d. 180
- e. none of these

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2. The fraction  $\frac{12}{17}$  expressed as a decimal and rounded to the nearest hundredth is:

- a. .705
- b. .71
- c. .7
- d. .7058
- e. none of these

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3. The product of  $2\frac{1}{4}$  and  $5\frac{1}{2}$  is:

- a.  $11\frac{3}{8}$
- b.  $12\frac{1}{8}$
- c.  $12\frac{1}{4}$
- d.  $12\frac{3}{8}$
- e. none of these

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4. How many times  $\frac{2}{3}$  is 4?

- a. 4
- b. 6
- c. 5
- d. 8
- e. none of these

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5. Your department purchased a new computer for \$5,000 subject to a chain discount of 20%, 25%, and 10%. The single equivalent discount percent of this series is:

- a. 40%
- b.  $27\frac{1}{2}$
- c. 46%
- d. 55%
- e. none of these

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6. The simple interest on \$800 at 6% for 60 days is:  
a. \$7.90  
b. \$8.10  
c. \$8.00  
d. \$8.25  
e. none of these \_\_\_\_\_
7. John Moore borrowed money on March 10 and repaid it on May 9. Interest is calculated on the exact number of days. The number of days on which interest was calculated is:  
a. 58  
b. 59  
c. 60  
d. 61  
e. none of these \_\_\_\_\_
8. The newsstand price of *Chang* magazine is 40 cents a copy. It is being offered on a subscription basis for a two-year period at \$5.00. What is the percent of savings per copy over the newsstand price?  
a. 47.5%  
b. 49%  
c. 52.5%  
d. .80%  
e. none of these \_\_\_\_\_
9. A real estate broker sold a home for \$100,000 and made a commission of 8%; he sold a lot for \$20,000 and made a profit of  $12\frac{1}{2}\%$ . His selling expenses on these transactions amounted to \$1,825. What was his net gain?  
a. \$7,225  
b. \$8,675  
c. \$9,675  
d. \$7,675  
e. none of these \_\_\_\_\_
10. Jennifer Rich can pay for a stereo in either of two ways. She can pay the list price with a down payment of 20% and the balance in five installments of \$32 each, or she can pay the cash price of \$176. How much would Jennifer save by paying the cash price?  
a. \$16.00  
b. \$35.20  
c. \$19.20  
d. \$24.00  
e. none of these \_\_\_\_\_

11. A budget shows the expenditure of 26.2% for food, 28.4% for rent, 12% for clothing, 12.7% for taxes and the balance for miscellaneous items. If the total income is \$10,000, the amount spent for miscellaneous items is:
- a. \$207
  - b. \$20,700
  - c. \$2.70
  - d. \$2,070
  - e. none of these
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12. John bought a textbook for \$7.20 having received a discount of 20%. The list price of the book is:
- a. \$8.68
  - b. \$9.00
  - c. \$5.76
  - d. \$9.50
  - e. none of these
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13. The interest on \$680 for six months at  $9\frac{1}{2}\%$  is:
- a. \$323
  - b. \$3.23
  - c. \$32.30
  - d. \$3,020
  - e. none of these
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14.  $\left(6\frac{5}{8} - 2\frac{3}{4}\right) \div \frac{4}{5}$  is equal to:
- a.  $6\frac{9}{10}$
  - b.  $5\frac{27}{32}$
  - c.  $4\frac{27}{32}$
  - d.  $14\frac{27}{32}$
  - e. none of these
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15. Of the 600 employees of Abbott Corp., 150 were out sick on Monday. What percent of the work force showed up for work?
- a. 7.5%
  - b. 750%
  - c. 70.5%
  - d. 75%
  - e. none of these
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