

## Averages

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1. What is the average of 8, 6, and 16?  
(A) 10      (B) 12      (C) 13      (D) 15      (E) 18
2. What is the average of 0 and 50?  
(A) 0      (B) 5      (C) 10      (D) 25      (E) 50
3. What is the average of 5, 11, 12, and 8?  
(A) 6      (B) 8      (C) 9      (D) 10      (E) 12
4. What is the average of 25, 28, 21, 30, and 36?  
(A) 25      (B) 28      (C) 29      (D) 34      (E) 44
5. What is the average of  $\frac{1}{4}$ ,  $\frac{3}{4}$ ,  $\frac{5}{8}$ ,  $\frac{1}{2}$ , and  $\frac{3}{8}$ ?  
(A)  $\frac{3}{32}$       (B)  $\frac{5}{16}$       (C)  $\frac{1}{2}$       (D)  $\frac{5}{8}$       (E)  $\frac{27}{32}$
6. What is the average of \$0.78, \$0.45, \$0.36, \$0.98, \$0.55, and \$0.54?  
(A) \$0.49      (B) \$0.54      (C) \$0.56      (D) \$0.60      (E) \$0.61
7. What is the average of 0.03, 0.11, 0.08, and 0.5?  
(A) 0.18      (B) 0.25      (C) 0.28      (D) 0.50      (E) 1.0
8. What is the average of 1,001, 1,002, 1,003, 1,004, and 1,005?  
(A) 250      (B) 1,000      (C) 1,003      (D) 2,005      (E) 5,000
9. What is the average of -8, -6, and -13?  
(A) -18      (B) -15      (C) -13      (D) -12      (E) -9
10. A student receives test scores of 79, 85, 90, 76, and 80. What is the average of these test scores?  
(A) 82      (B) 83      (C) 83      (D) 85      (E) 86
11. A shopper bought five different items costing \$4.51, \$6.25, \$3.32, \$4.48, and \$2.19. What is the average cost of the five items?  
(A) \$3.40      (B) \$3.80      (C) \$3.90      (D) \$4.00      (E) \$4.15

12. A gymnast received scores of 8.5, 9.3, 8.2, and 9.0 in four different events. What is the average of her scores?  
(A) 8.5      (B) 8.75      (C) 8.9      (D) 9      (E) 9.1
13. Five people have ages of 44, 33, 45, 44, and 29 years. What is the average of their ages in years?  
(A) 36      (B) 39      (C) 40      (D) 41      (E) 43
14. In a certain government office, if 360 staff hours are needed to process 120 building permit applications, on the average how long (expressed in hours) does it take to process one application?  
(A) 3      (B) 6      (C) 12      (D) 24      (E) 36
15. In a chemical test for Substance X, a sample is divided into five equal parts. If the purity of the five parts is 84 percent, 89 percent, 87 percent, 90 percent, and 80 percent, then what is the overall purity of the sample (expressed as a percent of substance X)?  
(A) 83      (B) 84      (C) 86      (D) 87      (E) 88
16. The average of three numbers is 24. If two of the numbers are 21 and 23, what is the third number?  
(A) 20      (B) 24      (C) 26      (D) 28      (E) 30
17. The average of three numbers is 5. If two of the numbers are zero, what is the third number?  
(A) 1      (B) 3      (C) 5      (D) 10      (E) 15
18. The average of the weight of four people is 166 pounds. If three of the people weigh 150 pounds, 200 pounds, and 180 pounds, what is the weight of the fourth person?  
(A) 134      (B) 140      (C) 155      (D) 161      (E) 165
19. For a certain student, the average of five test scores is 83. If four of the scores are 81, 79, 85, and 90, what is the fifth test score?  
(A) 83      (B) 82      (C) 81      (D) 80      (E) 79
20. Sue bought ten items at an average price of \$3.60. The cost of eight of the items totaled \$30. If the other two items were the same price, what was the price she paid for each?  
(A) \$15.00      (B) \$7.50      (C) \$6.00      (D) \$3.00      (E) \$1.50
21. In a certain shipment, weights of 12 books average 2.75 pounds. If one of the books is removed, the weights of the remaining books average 2.70 pounds. What was the weight, in pounds, of the book that was removed?  
(A) 1.7      (B) 2.3      (C) 3.0      (D) 3.3      (E) 4.5

22. The average of a group of seven test scores is 80. If the lowest and the highest scores are thrown out, the average of the remaining scores is 78. What is the *average* of the lowest and highest scores?  
(A) 100      (B) 95      (C) 90      (D) 88      (E) 85
23. In a certain group, 12 of the children are age 10, and eight are age 15. What is the average of the ages of all the children in the group?  
(A) 9.5      (B) 10.5      (C) 11      (D) 11.5      (E) 12
24. Robert made the following deposits in a savings account:
- | Amount | Frequency |
|--------|-----------|
| \$15   | 4 times   |
| \$20   | 2 times   |
| \$25   | 4 times   |
- What was the average of all the deposits Robert made?  
(A) \$18.50      (B) \$20.00      (C) \$21.50      (D) \$22.00      (E) \$12.50
25. The average of the weights of six people sitting in a boat is 145 pounds. After a seventh person gets into the boat, the average of the weights of all seven people in the boat is 147 pounds. What is the weight (in pounds) of the seventh person?  
(A) 160      (B) 159      (C) 155      (D) 149      (E) 147