

## FINDING AN AVERAGE

To find the average of a group of numbers, add all the numbers together. Once you have added all the numbers, divide the sum by how many numbers you added.

Look at the example below:

EXAMPLE: Find the average of these five numbers: 12, 14, 11, 10, and 13.

Step 1: Add all the numbers together

$$\begin{array}{r} 12 \\ 14 \\ 11 \\ 10 \\ \underline{13} \\ 60 \end{array} \text{(The sum of all the numbers)}$$

Step 2: Divide the sum by how many numbers were added together to make the sum.

$$\begin{array}{r} \underline{12} \\ 5 \ ) \ 60 \end{array}$$

EXAMPLE: A company nurse's assistant keeps track of the number of people on sick leave each day and the average for the week. She finds the average as follows:

Monday	7	
Tuesday	5	
Wednesday	4	
Thursday	8	
Friday	<u>16</u>	Find the sum
	40	

$$\frac{40}{5} = 8 \quad \text{divide the sum by the number of days}$$

The average number of people who are on sick leave for the week is eight (8).

**PRACTICE      PRACTICE      PRACTICE      PRACTICE**

Find the averages:

1. Find the average of these numbers by getting the sum of the numbers and then divide by how many numbers you added.

14, 16, 18, 16

The average of these numbers is \_\_\_\_\_

2. Find the average of these numbers:

127, 134, 149, 206

The average of these numbers is \_\_\_\_\_

3. John took three tests. His scores were 86, 82, and 93. What is his average grade?

The average of John's tests is \_\_\_\_\_

4. On July Fourth weekend, the temperatures were:

July 3	80.9
July 4	85.6
July 5	93.3

What is the average temperature? \_\_\_\_\_

5. The price of unleaded gasoline varies at different stations.

Station 1:	\$2.59
Station 2:	\$3.08
Station 3:	\$2.78

What is the average price of unleaded gas? \_\_\_\_\_

6. Here are the temperatures for September 5 for the past three years.

Year One:	75.7
Year Two:	93.2
Year Three:	86.4

What is the average temperature for Sept. 5? \_\_\_\_\_

7. Tom checked his car's gas mileage four times on his trip.

First check: 18.53 miles per gallon
Second check: 23.2 miles per gallon
Third check: 19.6 miles per gallon
Fourth check: 25.19 miles per gallon

What is his average gas mileage? \_\_\_\_\_

8. Sue and Kathy went on a four-day bike ride. They rode the following distances.

First day: 36.8 miles
Second day: 29.67 miles
Third day: 38.99 miles
Fourth day: 43.3 miles

What is the average distance they rode each day? \_\_\_\_\_

9. Over a four-week period, a waiter worked 40 hours one week, 25 hours the next week, 45 hours the week after, and 30 hours during the fourth week. What is the average number of hours the waiter worked per week during this four-week period? \_\_\_\_\_

10. Pete drives a cab at night. Monday night he drove for 3 hours, Tuesday night for 6 hours, Wednesday night for 5 hours, Thursday night for 4 hours, and Friday night for 7 hours. What was the average number of hours he drove each night? \_\_\_\_\_

11. On Monday night, Pete made \$14.30 in tips; on Tuesday, \$38.55; on Wednesday, \$26.15; on Thursday, \$21.65; and on Friday, \$42.35. How much did Pete average in tips per night? \_\_\_\_\_

12. During a basketball tournament, the number of tickets sold each night was: first night – 4,065 tickets; second night – 3,983 tickets; third night – 4,117 tickets; and the last night – 5,267 tickets. What was the average number of tickets sold for each night of the tournament? \_\_\_\_\_
13. Elizabeth received the following scores on math tests: 86, 76, 93, 89, 68, and 92. What was the average of her math test scores? \_\_\_\_\_
14. The tenants' association of the Kendal Projects meets every Tuesday evening. On the fourth there were 46 people at the meeting. On the eleventh there were 53 people. On the eighteenth there were 38 people, and on the twenty-fifth there were 55 people. What was the average attendance for meetings that month?  
\_\_\_\_\_
15. In 1996, Mr. Lee made \$26,776; in 1997 he made \$28,385; in 1998 he made \$29,185; and in 1999 he made \$31,595. What is his average earnings for the four years? \_\_\_\_\_
16. In 1996 Mr. Lee's family consisted of his wife, their two children and himself. Using the exact income, find the average (per capita) income for each member of the Lee family in 1996. \_\_\_\_\_
17. In 1999 the Lees had another child. Using the exact income, find the per capita income for each member of the Lee family in 1999. \_\_\_\_\_

18. The Perez family took three days to drive to their grandparents' house in the Midwest. Thursday they drove 487 miles, Friday they drove 392 miles, and Saturday they drove 456 miles. What was the average distance that they drove each day? \_\_\_\_\_
19. On Thursday the Perez family spent \$136 for gas, food, and lodging. They spent \$157 on Friday, and \$52 on Saturday. What is their average daily spending? \_\_\_\_\_
20. The Wallace family wanted to go to Disney Land as a family trip. They all decided to work extra and save for the trip. Checking with a travel agency, they learned that the trip will cost \$2500.00. The following chart shows how much they saved each month.

MONTH	\$\$ SAVED
January	\$300
February	\$230
March	\$189
April	\$225
May	\$187
June	\$199
July	\$214
August	\$238
September	\$167
October	\$207
November	\$179
December	\$205

What was the average amount per month that the Wallace's saved?  
 Round your answer to the nearest cent. \_\_\_\_\_  
 Did they have enough money to go to Disney World? \_\_\_\_\_

Answers (But don't peek!)

1. 16
2. 154
3. 87 (average grade)
4. 86.6
5. \$2.81 per gallon
6. 21.63 miles
7. 85.1
8. 37.19 miles
9. 35 hours per week
10. 5 hours
11. \$28.60
12. 4,358 tickets
13. 84
14. 48 people
15. \$28,985.25
16. \$6,694.56
17. \$6319.05
18. 445 miles
19. \$115
20. \$211.67; Yes, they had enough money to go to Disney World.