

# Finding Missing Measurements

75, 76, 77, #4      mean = 80

$$\begin{array}{r} \textcircled{x} \ 80 \\ 4 \overline{) 320} \end{array}$$

$$\begin{array}{r} 75 \\ 76 \\ 77 \end{array} \rangle 228$$

$$75 + 76 + 77 + x = 320 + \textcircled{x}$$

$$\begin{array}{r} 228 + \textcircled{x} = 320 \\ -228 \quad -228 \\ \hline \end{array}$$

$$\boxed{x = 92}$$

$$\begin{array}{r} 320 \\ -228 \\ \hline 92 \end{array}$$

When given the mean...

Step 1: find the product of the mean & the # of "scores"

Step 2: find the sum of the given #'s.

Step 3: find the difference of the product (step 1) and the sum (step 2).

\* combine steps 2 & 3 by solving algebraically! \*

cookies

mean: 18

William	12
Dustin	15
Jayden	20
Kyle	x

$$\text{step 1: } \begin{array}{r} 18 \\ \times 4 \\ \hline 72 \end{array}$$

$$\text{step 2: } 12 + 15 + 20 = 47$$

$$\text{step 3: } 72 - 47 = \boxed{25}$$

pizza

mean: 7

Alana	3
Amani	5
Javon	7
Myer	9
Josh C.	x

$$\text{step 1: } \begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$$

$$\text{step 2 \& 3: } 3 + 5 + 7 + 9 + x = 35$$

$$\begin{array}{r} \cancel{24} + (x) = 35 \\ -\cancel{24} \quad -24 \end{array}$$

$$\boxed{x = 11}$$

5 numbers

mode: 90  
 median: 90  
 range: 90

6 numbers

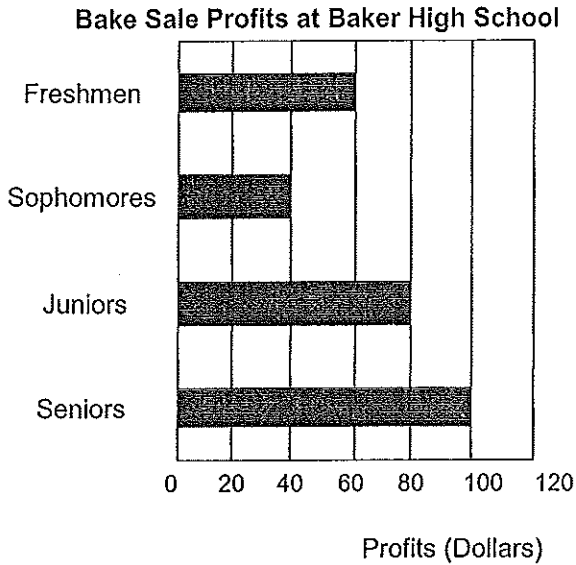
mode: 3  
 median: 10

Name: \_\_\_\_\_

**Application of  
Mean, Median, Mode**

Date: \_\_\_\_\_

1. Find the mean and range of the set of data in the diagram.



A. Mean: \_\_\_\_\_

B. Range: \_\_\_\_\_

2. Jack's scores on the first four days of a golf tournament were 72, 76, 71, and 74. What score must he receive on the last day of the tournament in order to have a mean score of 73?
3. The youngest person in an audience of 400 people is 25 years old. The range of ages in the audience is 38 years. Find the age of the oldest person in the audience.
4. The mean of 29 test scores is 77.8. What is the sum of these 29 test scores?
5. Gini's test scores are 95, 82, 76, and 88. What score must she get on the fifth test in order to get a mean of 84 on the five tests? Calculate the mode and median as well.

Score	Frequency	Totals
1	2	
2	3	
3	5	
4	2	
5	1	

6. The following frequency table shows Ray's scores on an electronic game.

Which expression gives Ray's mean score?

A.  $\frac{2+6+15+8+5}{13}$

B.  $\frac{2+6+15+8+5}{5}$

C.  $\frac{1+2+3+4+5}{13}$

D.  $\frac{1+2+3+4+5}{5}$

