

A-31 to A-40

Name _____

Basic Mathematics Used Often In Statistics.

A-31. Solve for x, $\frac{3}{8} + x = \frac{1}{3}$

A-32. Solve For x, $\frac{4x}{3} + 3 = 7$

A-33. Solve for y, $P=4y+4x$

A-34. Solve for n, $\frac{1}{9}n + 11 = m$

A-35. Write an equation in slope intercept form: $m=3$ going through $(2, -3)$

Write an equation in slope intercept form of a line going through $(3, -1)$ and $(-1, 4)$

Write an equation in point slope form: $m=2$ going through $(1,-2)$

Write an equation in standard form: $m=-1$ going through $(1, 3)$

Find the slope of a line through $(3, -11)$ and $(-4, 2)$

A-36. Complete the table for $2x+y=9$

<u>X</u>	<u>Y</u>
-2	
2	
4	

A-37. Evaluate the following

a. $6!$ b. $\frac{9!}{6!}$ c. $7! - 4!$ d. $\frac{(6!)(5!)}{(4!)(3!)}$ e. $\frac{12!}{(3!)(4!)(5!)}$

A-38. Evaluate the following

a. $\sum_{k=1}^4 (2k - 3)$ b. $\sum_{k=1}^5 (k^2 + 2k)$ c. $\sum_{x=1}^{10} (x)$

For each of the following sets find $\sum x, \sum x^2, (\sum x)^2,$ and $\sum (x - \bar{x})^2$

A-39. 7, 3, 5, 4, 2, 3

$\sum x =$ _____
 $\sum x^2 =$ _____
 $(\sum x)^2 =$ _____
 $\sum (x - \bar{x})^2 =$ _____

A-40. 6, 4, 8, 4, 12

$\sum x =$ _____
 $\sum x^2 =$ _____
 $(\sum x)^2 =$ _____
 $\sum (x - \bar{x})^2 =$ _____