

**Section 3.2 Linear Regression Worksheet: Practice with Summations.**

For each of the data tables on Pgs. 145-146 #1-5, complete the following table.

1.

$x$	$y$	$x^2$	$xy$
A. $\sum x$	B. $\sum y$	C. $\sum x^2$	D. $\sum xy$

**Also compute:**

E.  $(\sum x)^2$  compare to C.

F.  $(\sum x)(\sum y)$  compare to D.

G.  $(\sum x)(y)$  compare to D and F.

2.

$x$	$y$	$x^2$	$xy$
A. $\sum x$	B. $\sum y$	C. $\sum x^2$	D. $\sum xy$

**Also compute:**

E.  $(\sum x)^2$  compare to C.

F.  $(\sum x)(\sum y)$  compare to D.

G.  $(\sum x)(y)$  compare to D and F.

3.

$x$	$y$	$x^2$	$xy$
A. $\sum x$	B. $\sum y$	C. $\sum x^2$	D. $\sum xy$

**Also compute:**

E.  $(\sum x)^2$  compare to C.

F.  $(\sum x)(\sum y)$  compare to D.

G.  $(\sum x)(y)$  compare to D and F.

4.

$x$	$y$	$x^2$	$xy$
A. $\sum x$	B. $\sum y$	C. $\sum x^2$	D. $\sum xy$

**Also compute:**

E.  $(\sum x)^2$  compare to C.

F.  $(\sum x)(\sum y)$  compare to D.

G.  $(\sum x)(y)$  compare to D and F.

$x$	$y$	$x^2$	$xy$
A. $\sum x$	B. $\sum y$	C. $\sum x^2$	D. $\sum xy$

**Also compute:**

E.  $(\sum x)^2$  compare to C.

F.  $(\sum x)(\sum y)$  compare to D.

G.  $(\sum x)(y)$  compare to D and F.