

Name: _____ Class: _____ Date: _____

Probability & Statistics Chapter 4 Practice Test

1. Find the inverse of the matrix.

$$\begin{bmatrix} 11 & 7 \\ 3 & 2 \end{bmatrix}$$

2. Perform the indicated operation.

$$\begin{bmatrix} 2 & -3 & 4 \\ 1 & 5 & 7 \end{bmatrix} + \begin{bmatrix} 1 & 0 & 0 \\ 0 & -1 & 5 \end{bmatrix}$$

3. State the dimensions of each matrix. Evaluate the determinant of the matrix.

$$\begin{bmatrix} 1 & 3 & 1 \\ 2 & 1 & -5 \\ 3 & -1 & -4 \end{bmatrix}$$

4. State the dimensions of each matrix. Evaluate the determinant of the matrix.

$$\begin{bmatrix} 2 & -3 & 1 \\ 3 & -1 & 2 \\ 1 & 2 & -3 \end{bmatrix}$$

5. Find the inverse of the matrix.

$$\begin{bmatrix} 1 & 8 & -2 \\ 3 & -1 & 4 \\ 2 & -3 & -1 \end{bmatrix}$$

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6. Find the inverse of the matrix.

$$\begin{bmatrix} 5 & -2 \\ 6 & 3 \end{bmatrix}$$

7. Perform the indicated operation.

$$\begin{bmatrix} -1 & 2 \\ 3 & -4 \end{bmatrix} \begin{bmatrix} 0 & 1 \\ 2 & 0 \end{bmatrix}$$

8. Perform the indicated operation.

$$3 \begin{bmatrix} 1 & 3 & -3 \\ 2 & -1 & 4 \end{bmatrix}$$

9. Perform the indicated operation.

$$\begin{bmatrix} 2 & -4 & 1 \\ 3 & 8 & -2 \end{bmatrix} - 2 \begin{bmatrix} 1 & 2 & -4 \\ -2 & 3 & 7 \end{bmatrix}$$

10. Perform the indicated operation.

$$\begin{bmatrix} 1 & 2 \\ -4 & 3 \\ 5 & 2 \end{bmatrix} \begin{bmatrix} 5 \\ 4 \end{bmatrix}$$