

Matrix- Day 1 HW

Name: _____

Date: _____

1. Which of the following matrices has 3×2 as its dimensions?

A. $A = \begin{bmatrix} 5 & 7 & 1 \\ 4 & 9 & 5 \end{bmatrix}$

B. $B = \begin{bmatrix} 7 & 6 \\ 3 & 4 \\ 9 & 8 \end{bmatrix}$

C. $D = \begin{bmatrix} 5 & 7 \\ 3 & 3 \end{bmatrix}$

D. $E = [5 \ 9 \ 1 \ 0 \ 3]$

2. What is the position of x in matrix A?

$$A = \begin{bmatrix} 2 & 9 & 5 & 7 & 9 \\ 4 & 2 & 4 & 4 & 7 \\ 3 & 8 & 2 & 3 & 7 \\ 2 & x & 4 & 8 & 3 \end{bmatrix}$$

- A. a_{24} B. a_{42} C. a_{32} D. a_{44}

3. What is the value of entry d_{43} in matrix D?

$$D = \begin{bmatrix} 2 & 9 & 5 & 7 & 9 \\ 4 & 2 & 4 & 4 & 7 \\ 3 & 8 & 2 & 3 & 7 \\ 2 & 3 & 4 & 8 & 3 \end{bmatrix}$$

- A. 4 B. 8 C. 3 D. 9

4. In matrix A, what is the value of $a_{43} + a_{15}$?

$$A = \begin{bmatrix} 2 & 9 & 5 & 7 & 9 \\ 4 & 2 & 4 & 4 & 7 \\ 3 & 8 & 2 & 3 & 7 \\ 2 & 3 & 4 & 8 & 3 \end{bmatrix}$$

- A. 8 B. 13 C. 5 D. 9

5. What is the value of the difference, $k_{23} - k_{42}$, in matrix K?

$$K = \begin{bmatrix} 2 & 9 & 5 & 7 & 9 \\ 4 & 2 & 4 & 4 & 7 \\ 3 & 8 & 2 & 3 & 7 \\ 2 & 3 & 4 & 8 & 3 \end{bmatrix}$$

- A. 4 B. 6 C. 1 D. 9

6. The following matrix represents the clothing inventory of a school bookstore.

	Medium	Large
Shirts	250	420
Shorts	425	550
Sweaters	110	175

How many large sweaters does the bookstore have in stock?

- A. 65 B. 175 C. 550 D. 1145

7. The following matrix represents the food inventory of a catering company.

	Frozen	Fresh
Steaks	120	10
Fish	225	25
Chickens	300	60

How many frozen items does the company have in stock?

- A. 95 B. 120 C. 130 D. 645

8. You own a store that sells small appliances. The matrix below shows the revenue, expenses, and profit for the first three months of the year. What is the entry in the second row and third column? What does this number represent?

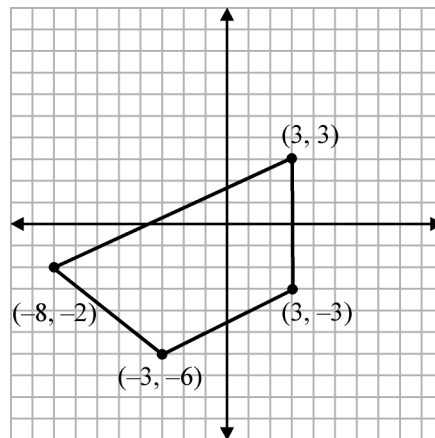
	Revenue	Expenses	Profit
January	\$78,432	\$59,426	\$19,006
February	\$82,528	\$64,371	\$18,211
March	\$94,310	\$85,422	\$8,888

- A. \$82,528, February's revenue
 B. \$85,422, March's expenses
 C. \$64,371, February's expenses
 D. \$18,211, February's profit

9. At a local department store, a pair of slacks cost \$36.99, a dress costs \$85.99 and a pair of shoes cost \$45.99. Create a 3×2 matrix that represents the discounted cost of each item on Friday and Saturday if there is a store-wide discount of 25% on Friday and 30% on Saturday.

- A. $\begin{bmatrix} 9.25 & 11.10 \\ 21.50 & 25.80 \\ 11.50 & 13.80 \end{bmatrix}$ B. $\begin{bmatrix} 27.74 & 25.89 \\ 64.49 & 60.19 \\ 34.49 & 32.19 \end{bmatrix}$
- C. $\begin{bmatrix} 27.74 & 19.42 \\ 64.49 & 45.14 \\ 34.49 & 24.14 \end{bmatrix}$ D. $\begin{bmatrix} 11.99 & 6.99 \\ 60.99 & 55.99 \\ 20.99 & 15.99 \end{bmatrix}$

10. Which matrix below contains the coordinates of the quadrilateral shown?



- A. $\begin{bmatrix} -8 & -2 & 3 & 3 \\ -3 & -6 & 3 & -3 \end{bmatrix}$
- B. $\begin{bmatrix} -8 & 3 & 3 & -3 \\ -2 & 3 & -3 & -6 \end{bmatrix}$
- C. $\begin{bmatrix} -3 & 3 & 3 & -8 \\ -2 & 3 & -3 & -6 \end{bmatrix}$
- D. $\begin{bmatrix} -3 & -6 & -2 & 3 \\ -3 & -8 & 3 & 3 \end{bmatrix}$

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1.
Answer: B
Objective: N.VM.6

2.
Answer: B
Objective: N.VM.6

3.
Answer: A
Objective: N.VM.6

4.
Answer: B
Objective: N.VM.6

5.
Answer: C
Objective: N.VM.6

6.
Answer: B
Objective: N.VM.6

7.
Answer: D
Objective: N.VM.6

8.
Answer: D
Objective: N.VM.6

9.
Answer: B
Objective: N.VM.6

10.
Answer: B
Objective: N.VM.6