

Adding and Subtracting Matrices

with Rainbows



Matrix Cards

This was designed as an activity to assist in the teaching of Adding and Subtracting Matrices.

How to Play:

- There are four cards of the same size Matrix.
- Each group gets 2 cards at random.
- They then both add and subtract the matrices.
- Then have them switch ONE card with another group.
- Repeat, until each group has done all combinations of cards.



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Matrix A

1

2

3

4

5

6



Matrix B

-1

-2

-3

-4

-5

-6



Matrix C

-7

8

-9

10

-11

12



Matrix D

1

3

5

6

-4

12



Answers: Addition

A+B

$$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

A+C

$$\begin{bmatrix} -6 & 10 & -6 \\ 14 & -6 & 18 \end{bmatrix}$$

A+D

$$\begin{bmatrix} 2 & 5 & 8 \\ 10 & 1 & 8 \end{bmatrix}$$

B+C

$$\begin{bmatrix} -8 & 6 & -12 \\ 6 & -16 & 6 \end{bmatrix}$$

B+D

$$\begin{bmatrix} 0 & 1 & 2 \\ 2 & 9 & -4 \end{bmatrix}$$

C+D

$$\begin{bmatrix} -6 & 11 & -4 \\ 16 & -15 & 14 \end{bmatrix}$$

Answers: Subtraction

A-B

$$\begin{bmatrix} 2 & 4 & 6 \\ 8 & 10 & 12 \end{bmatrix}$$

A-C

$$\begin{bmatrix} 8 & -6 & 12 \\ -6 & 16 & -6 \end{bmatrix}$$

A-D

$$\begin{bmatrix} 0 & -1 & -2 \\ -2 & 9 & -4 \end{bmatrix}$$

B-C

$$\begin{bmatrix} 6 & -10 & 6 \\ -14 & 7 & -18 \end{bmatrix}$$

B-D

$$\begin{bmatrix} 0 & -5 & -8 \\ -10 & -1 & -8 \end{bmatrix}$$

C-D

$$\begin{bmatrix} -8 & 5 & -14 \\ 4 & -7 & 10 \end{bmatrix}$$