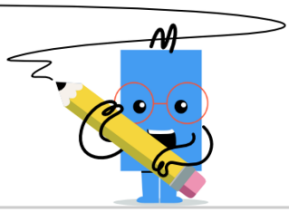
Name



Multiply a matrix by a scalar

1 Choose the result with the highlighted row filled in correctly.

A

$$\begin{bmatrix} 30 & 25 \\ ? & ? \\ ? & ? \end{bmatrix}$$

B

$$\begin{bmatrix} -25 & 15 \\ ? & ? \\ ? & ? \end{bmatrix}$$

2 Choose the result with the highlighted entry filled in correctly.

A

$$\begin{bmatrix} 9 & ? & ? \\ ? & ? & ? \end{bmatrix}$$

B

$$\begin{bmatrix} 24 & ? & ? \\ ? & ? & ? \end{bmatrix}$$

3 Which expression gives the value of the highlighted entry?

A

$$-1 \cdot 8$$

B

$$-1 \cdot 6$$

4 Find the result of -4A.

$$A = \begin{bmatrix} -4 & 6 \\ 2 & 4 \\ 3 & -5 \end{bmatrix}$$

$$[8pt] -4A = [?]$$

A $\begin{bmatrix} -16 & 24 \\ 8 & 16 \\ 12 & -20 \end{bmatrix}$

B $\begin{bmatrix} 20 & -30 \\ -10 & -20 \\ -15 & 25 \end{bmatrix}$

C $\begin{bmatrix} -4 & 6 \\ 2 & 4 \\ 3 & -5 \end{bmatrix}$

D $\begin{bmatrix} 16 & -24 \\ -8 & -16 \\ -12 & 20 \end{bmatrix}$

5 Find the result of 5A.

$$A = \begin{bmatrix} 0 & -3 \\ 6 & 1 \end{bmatrix}$$

$$[8pt] 5A = [?]$$

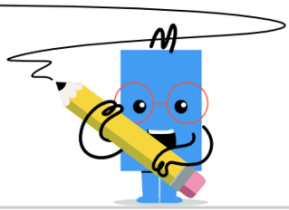
A $\begin{bmatrix} 0 & -18 \\ 36 & 6 \end{bmatrix}$

B $\begin{bmatrix} 0 & -3 \\ 6 & 1 \end{bmatrix}$

C $\begin{bmatrix} 0 & 15 \\ -30 & -5 \end{bmatrix}$

D $\begin{bmatrix} 0 & -15 \\ 30 & 5 \end{bmatrix}$

Name



Multiply a matrix by a scalar

6 Find the result of 4A.

$$A = \begin{bmatrix} 2 & 4 & -4 \\ 1 & -6 & 5 \\ 0 & -2 & -1 \end{bmatrix}$$
$$[8pt] 4A = [\,?\,]$$

A

$$\begin{bmatrix} 8 & 16 & -16 \\ 4 & -24 & 20 \\ 0 & -8 & -4 \end{bmatrix}$$

B

$$\begin{bmatrix} 10 & 20 & -20 \\ 5 & -30 & 25 \\ 0 & -10 & -5 \end{bmatrix}$$

7 Find the result of -2A.

$$A = \begin{bmatrix} 6 & 9 & -4 \\ 2 & 3 & -1 \end{bmatrix}$$
$$[8pt] -2A = [\,?\,]$$

A

$$\begin{bmatrix} 6 & 9 & -4 \\ 2 & 3 & -1 \end{bmatrix}$$

B

$$\begin{bmatrix} -18 & -27 & 12 \\ -6 & -9 & 3 \end{bmatrix}$$

C

$$\begin{bmatrix} -12 & -18 & 8 \\ -4 & -6 & 2 \end{bmatrix}$$

D

$$\begin{bmatrix} 12 & 18 & -8 \\ 4 & 6 & -2 \end{bmatrix}$$