Task card 1 Matrix Multiplication

Multiply: $\begin{bmatrix} 5 & -5 \\ 4 & -5 \end{bmatrix} \times \begin{bmatrix} 3 & 3 \\ -3 & 2 \end{bmatrix}$

Task card 2 Matrix Multiplication

Multiply: $-3 \times \begin{bmatrix} 0 & 5 \\ 1 & -5 \end{bmatrix}$

Task card 3 Matrix Multiplication

Multiply: $\begin{bmatrix} 1 & -1 \\ 3 & -4 \end{bmatrix} \times \begin{bmatrix} -4 & 5 \\ -1 & 1 \end{bmatrix}$

Task card 4 Matrix Multiplication

Multiply: $-3 \times \begin{bmatrix} 4 & 0 \\ 0 & -2 \end{bmatrix}$

Task card 5 Matrix Multiplication

Multiply: $\begin{bmatrix} 5 & 0 \\ -2 & -3 \end{bmatrix} \times \begin{bmatrix} 4 & 2 \\ 2 & -2 \end{bmatrix}$

Task card 6 Matrix Multiplication

Multiply: $-5 \times \begin{bmatrix} 1 & 5 \\ -1 & -5 \end{bmatrix}$

Task card 7 Matrix Multiplication

Multiply: $\begin{bmatrix} -3 & -3 \\ -5 & -1 \end{bmatrix} \times \begin{bmatrix} -4 & 3 \\ 1 & 5 \end{bmatrix}$

Task card 8 Matrix Multiplication

Multiply: $-4 \times \begin{bmatrix} 3 & -3 \\ 4 & -4 \end{bmatrix}$

Task card 9 Matrix Multiplication

Multiply: $\begin{bmatrix} 2 & 5 \\ 1 & -5 \end{bmatrix} \times \begin{bmatrix} -4 & 5 \\ 4 & -1 \end{bmatrix}$

Task card 10 Matrix Multiplication

Multiply: $2 \times \begin{bmatrix} 1 & 4 \\ 4 & 3 \end{bmatrix}$

Task card 11 Matrix Multiplication

Multiply: $\begin{bmatrix} 2 & 3 \\ 5 & 3 \end{bmatrix} \times \begin{bmatrix} 6 & 4 \\ -3 & 6 \end{bmatrix}$

Task card 12 Matrix Multiplication

Multiply: $3 \times \begin{bmatrix} -3 & 5 \\ -5 & 3 \end{bmatrix}$

Task card 13 Matrix Multiplication

Multiply: $\begin{bmatrix} 2 & 3 \\ 1 & 0 \end{bmatrix} \times \begin{bmatrix} 2 & -6 \\ 3 & 1 \end{bmatrix}$

Task card 14 Matrix Multiplication

Multiply: $2 \times \begin{bmatrix} 0 & -5 \\ -2 & -4 \end{bmatrix}$

Task card 15 Matrix Multiplication

Multiply: $\begin{bmatrix} -3 & 6 \\ 3 & 5 \end{bmatrix} \times \begin{bmatrix} 1 & 1 \\ -5 & -4 \end{bmatrix}$

Task card 16 Matrix Multiplication

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

Task card 17 Matrix Multiplication

Multiply: $\begin{bmatrix} 5 & 0 \\ 5 & 0 \end{bmatrix} \times \begin{bmatrix} 3 & 3 \\ 4 & -4 \end{bmatrix}$

Task card 18 Matrix Multiplication

Multiply: $3 \times \begin{bmatrix} 5 & 4 \\ -2 & -3 \end{bmatrix}$

Task card 19 Matrix Multiplication

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

Task card 20 Matrix Multiplication

Multiply: $-4 \times \begin{bmatrix} -2 & 1 \\ 4 & 5 \end{bmatrix}$

Task card 21 Matrix Multiplication

Multiply: $\begin{bmatrix} 4 & 1 \\ 3 & 5 \end{bmatrix} \times \begin{bmatrix} 0 & 5 \\ 0 & 5 \end{bmatrix}$

Task card 22 Matrix Multiplication

Multiply: $-2 \times \begin{bmatrix} 1 & 1 \\ -5 & -1 \end{bmatrix}$

Task card 23 Matrix Multiplication

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

Task card 24 Matrix Multiplication

Multiply: $2 \times \begin{bmatrix} 4 & 2 \\ -5 & -1 \end{bmatrix}$

Matrix Multiplication Task Cards

Recording sheet · Grade 12 · Solve each problem. When the answer is a matrix, write one number in each box.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Matrix Multiplication Task Cards: Answer Key

Grade 12 · Hard

The answers online

1. $\begin{bmatrix} 30 & 5 \\ 27 & 2 \end{bmatrix}$

2. $\begin{bmatrix} 0 & -15 \\ -3 & 15 \end{bmatrix}$

3. $\begin{bmatrix} -3 & 4 \\ -8 & 11 \end{bmatrix}$

4. $\begin{bmatrix} -12 & 0 \\ 0 & 6 \end{bmatrix}$

5. $\begin{bmatrix} 20 & 10 \\ -14 & 2 \end{bmatrix}$

6. $\begin{bmatrix} -5 & -25 \\ 5 & 25 \end{bmatrix}$

7. $\begin{bmatrix} 9 & -24 \\ 19 & -20 \end{bmatrix}$

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

9. $\begin{bmatrix} 12 & 5 \\ -24 & 10 \end{bmatrix}$

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

11. $\begin{bmatrix} 3 & 26 \\ 21 & 38 \end{bmatrix}$

12. $\begin{bmatrix} -9 & 15 \\ -15 & 9 \end{bmatrix}$

13. $\begin{bmatrix} 13 & -9 \\ 2 & -6 \end{bmatrix}$

14. $\begin{bmatrix} 0 & -10 \\ -4 & -8 \end{bmatrix}$

15. $\begin{bmatrix} -33 & -27 \\ -22 & -17 \end{bmatrix}$

16. $\begin{bmatrix} 2 & -6 \\ 6 & -6 \end{bmatrix}$

17. $\begin{bmatrix} 15 & 15 \\ 15 & 15 \end{bmatrix}$

18. $\begin{bmatrix} 15 & 12 \\ -6 & -9 \end{bmatrix}$

19. $\begin{bmatrix} 4 & 5 \\ 8 & -18 \end{bmatrix}$

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

21. $\begin{bmatrix} 0 & 25 \\ 0 & 40 \end{bmatrix}$

22. $\begin{bmatrix} -2 & -2 \\ 10 & 2 \end{bmatrix}$

23. $\begin{bmatrix} 10 & 18 \\ 11 & -4 \end{bmatrix}$

24. $\begin{bmatrix} 8 & 4 \\ -10 & -2 \end{bmatrix}$