

4-1 Matrices and Data

Warm Up

Distribute.

1. $3(2x + y + 3z)$
2. $-1(x - y + 2)$

State the property illustrated.

3. $(a + b) + c = a + (b + c)$
4. $p + q = q + p$

4-2 Multiplying Matrices

Warm Up

State the dimensions of each matrix.

1. $[3 \ 1 \ 4 \ 6]$
2. $\begin{bmatrix} -1 & 4 \\ 0 & 1 \\ 2 & -1 \end{bmatrix}$

Calculate.

3. $3(-4) + (-2)(5) + 4(7)$
4. $(-3)(3) + 2(5) + (-1)(12)$

4-1 Matrices and Data

Warm Up

Distribute.

1. $3(2x + y + 3z)$ $6x + 3y + 9z$

2. $-1(x - y + 2)$ $-x + y - 2$

State the property illustrated.

3. $(a + b) + c = a + (b + c)$ **Associative Property of Addition**

4. $p + q = q + p$ **Commutative Property of Addition**

4-2 Multiplying Matrices

Warm Up

State the dimensions of each matrix.

1. $[3 \ 1 \ 4 \ 6]$ 1×4

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

Calculate.

3. $3(-4) + (-2)(5) + 4(7)$ 6

4. $(-3)(3) + 2(5) + (-1)(12)$ -11