Warm Up 1.1H

If the following can be evaluated, then evaluate them. If they cannot, say why not.

1. $4[-8 \quad 1] - 5\begin{bmatrix} 1 \\ 6 \end{bmatrix} =$

2. $2[3 \quad 4 \quad -2] - 4[8 \quad -1 \quad 5] =$

3. $\begin{bmatrix} -1 \\ 6 \\ 2 \end{bmatrix} + \begin{bmatrix} -3 \\ 4 \\ -2 \end{bmatrix} =$

4. $\begin{bmatrix} 5 \\ 3 \end{bmatrix} \times [0 \quad 1] =$

5. $[4 \quad -6] \times \begin{bmatrix} -1 & 4 \\ 0 & -3 \end{bmatrix} =$

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

7. You have the following information. Organize the information into two different matrices in such a way that they can be multiplied together using our matrix multiplication rules. Then, multiply them and make sure to include the units in your solution matrix.

- Hurly has 4 Twinkies, 3 Ding Dongs, and 9 Apollo bars. Jack has 2 Twinkies, 2 Ding Dongs and 10 Apollo bars. Kate has 6 Twinkies, 2 Ding Dongs, and 1 Apollo bar.
- Ding dongs have 360 calories. Twinkies have 150 calories. Apollo bars have 240.