

Activity 28

Premiership table

1.

a)

	Won	Drawn	Lost
Chelsea	7	3	2
Tottenham Hotspur	6	2	4
Arsenal	10	1	2
West Ham United	3	4	6
Crystal Palace	2	1	10
Fulham	3	1	9

b) 6

c) 3

2.

a) 5

b) 0

c) 11

3. a)

$$\begin{pmatrix} 7 & 3 & 2 \\ 6 & 2 & 4 \\ 10 & 1 & 2 \\ 3 & 4 & 6 \\ 2 & 1 & 10 \\ 3 & 1 & 9 \end{pmatrix} + \begin{pmatrix} 5 & 2 & 3 \\ 7 & 0 & 3 \\ 4 & 5 & 2 \\ 4 & 3 & 2 \\ 5 & 1 & 3 \\ 2 & 2 & 6 \end{pmatrix} = \begin{pmatrix} 12 & 5 & 5 \\ 13 & 2 & 7 \\ 14 & 6 & 4 \\ 7 & 7 & 8 \\ 7 & 2 & 13 \\ 5 & 3 & 15 \end{pmatrix}$$

b) The results of the six teams over both periods.

4.

a) 9

b) 4

5.

a) $\begin{bmatrix} 9 & 6 & 6 \\ 12 & 6 & 4 \end{bmatrix}$

b) The results between Christmas and the end of the season.

6. Arsenal has 37, Tottenham has 27

7.

a) $\begin{bmatrix} 37 \\ 27 \end{bmatrix}$ b) $\begin{bmatrix} 70 \\ 69 \end{bmatrix}$

8. The number of points each team has at that point in the season.

9.

- a) Add elements in the same row and column together. It only makes sense if each matrix has the same number of rows and columns.
- b) Subtract elements in the same row and column.
- c) Go across a row in the first matrix and down the column in the second. Multiply each pair together and then add.

The screenshot shows a ClassPad calculator window titled "Edit Action Interactive". The interface includes a toolbar with various mathematical symbols and functions. The main display area shows the following sequence of operations and results:

- Matrix C: $\begin{bmatrix} 12 & 1 & 4 \\ 8 & 3 & 5 \end{bmatrix} \Rightarrow C$
- Matrix F: $\begin{bmatrix} 21 & 7 & 10 \\ 20 & 9 & 9 \end{bmatrix} \Rightarrow F$
- Operation F-C: $\begin{bmatrix} 9 & 6 & 6 \\ 12 & 6 & 4 \end{bmatrix}$
- Matrix P: $\begin{bmatrix} 3 \\ 1 \\ 0 \end{bmatrix} \Rightarrow P$
- Operation C x P: $\begin{bmatrix} 37 \\ 27 \end{bmatrix}$
- Operation F x P: $\begin{bmatrix} 70 \\ 69 \end{bmatrix}$

The bottom of the screen shows the mode selection: Alg, Decimal, Real, Deg.