

Chloe records the number of goals scored by her favourite football team in each of 40 matches.

number of goals	frequency
0	7
1	15
2	13
3	2
4	2
5	1

Calculate the mean number of goals scored per match.

Solution:

The number of goals scored by Chloe's favourite football team in all 40 matches is:

$$0*7 + 1*15 + 2*13 + 3*2 + 4*2 + 5*1 = 0 + 15 + 26 + 6 + 8 + 5 = 60.$$

The mean number of goals scored per match is:

$$60 : 40 = 1.5.$$

Answer: 1.5