GOAL'S PER 90 MINS

Seasons		Apps		Goals		Mins/goa	al
2003-04		40	1	6			
						392	
2004-05		50		9			
						41	.3
2005-06		47		12			
					284		— What is
2006-07		53		23			
			191				going on?
2007-08	1	49		42			
	98						
2008-09		53	1	26			
		1	66				
2021-22		38	1	24			
	1	33					
2022-23		16		3			
						350	

What The Graph 30: teacher notes

Notes/comments

- Very bizarre, error-filled graph from the Daily Telegraph.
- It shows the number of minute on the pitch for each goal Cristiano Ronaldo, while he played at Manchester United. (He left Man Utd in 2009 and returned in 2021, which is why there is a gap).
- 'Apps' is the number of Appearances.
- The title is wrong: it says 'Goals per game', whereas the graph actually shows the number of minutes for each goal he scored. (And there's an unnecessary apostrophe in the title too!)
- If Ronaldo played every minute of every game, we would expect the number of goals multiplied by the mins/goal to equal the number of appearances multiplied by 90 (because a football match is 90 mins long). The following slide has a table showing calculations related to this. (Students could create their own version in Excel.)
- The table perhaps shows why Ronaldo was getting frustrated at Man Utd in the season 2022-23 (he left the club in November 2022).

Source:

 <u>https://www.telegraph.co.uk/football/2022/11/22/cristiano-ronaldo-leaves-manchester-united-live-updates-latest/</u>

			Mins/		Goals x	Fraction of each game
	Apps	Goals	goal	Apps x 90	Mins/Goal	played (on average)
2003-04	40	6	392	3600	2352	0.65
2004-05	50	9	413	4500	3717	0.83
2005-06	47	12	284	4230	3408	0.81
2006-07	53	23	191	4770	4393	0.92
2007-08	49	42	98	4410	4116	0.93
2008-09	53	26	166	4770	4316	0.90
2021-22	38	24	133	3420	3192	0.93
2022-23	16	3	350	1440	1050	0.73