

*Measures of Central Tendency***Answers****2 Finding the Mean from Tables and Tally Charts**

1. mean = 1.25 cars
2. mean = 1.93 TV sets
3. mean = 4.08 calls
4. mean = 3.56 runs per over
5. (a) mean = 1.95 plants (b) 22 times
6. mean number = 1.15 planes
7. mean = 2.30 repeats
8. (a) 6 matches (b) 2.04 goals
9. Missing frequencies are 1, 5, 0. Missing frequencies of tickets are 0, 20, 21, 10, 0.
mean = 2.8 (1 d.p.)
10. (a) 3 children (b) frequency = 21, total = 48, mean = 2.29 children
(c) The number of children per family has decreased on average ($2.29 < 2.7$), and there is less variation from family to family (today's range is 3, whilst in 1980 it was 7).
11. (a) 12 children (b) $5 + 14 + 10 = 29$ children (c) Modal size is 5
(d) Median size is 6 (e) (i) $p = \frac{14}{50} = 0.28$ (ii) $p = \frac{12 + 9}{50} = \frac{21}{50} = 0.42$
(f) Mode - there will be more demand for shoes of that size.

3 Calculations with the Mean

1. mean = 161.55 cm
2. mean = 2 goals
3. mean = 4 students
4. mean = 60.15 kg
5. 7 solar power systems
6. 84
7. £6000
8. 9.5
9. mean \approx 4.47
10. 320
11. 16
12. 8