



Q	Answer	Marks
1	a) April b) 15	2
2	a) 260 b) April and May	2
3	a) Sales are highest in the colder quarters (Q1 and Q4) and lowest in summer (Q3) - a seasonal pattern b) Every quarter is lower in 2025 than in 2024, so the trend is downward	2
4	a) Quarter 3, because it is summer; b) Rising each year, with the same seasonal pattern; c) About 480	4
5	a) Straight line through the middle of the points; b) About 38 (accept 36 to 41); c) Week 52 is far outside the data, so the trend may not continue	4
6	Points plotted at (Mon, 85), (Tue, 70), (Wed, 90), (Thu, 105), (Fri, 120), (Sat, 150), (Sun, 140), joined in order with straight lines	2
7	a) 15, 16, 17, 18; b) Rising steadily by 1 hundred each day	4
8	The vertical axis does not start at zero, so the small rise looks very steep; the actual increase is only £6000, about 3%, which is not a rocketing rise	2
9	a) 4: profit rises by £4000 a year; b) About £48 000; c) Outside the data, trend may not continue	4
10	The vertical axis starts at 240000 rather than zero, exaggerating the rise; the years on the horizontal axis are not equally spaced in time but are plotted at equal gaps, distorting the rate of change	2
11	No. Total = 1488, mean = 1488 divided by 6 = 248, which is below the target of 250	3
12	a) Plot (2025 Q3, 650) and (2025 Q4, 1020) and join with straight lines b) Seasonal pattern, with a slight downward trend year on year	3
13	a) Mean = $2412 / 6 = 402 > 400$ b) 14	3
14	a) $2200 / 2000 = 1.1$ and $2420 / 2200 = 1.1$, so a 10% increase each year b) 2662 c) The trend may not continue - membership could change for other reasons	3

Full worked solutions, written out by hand, are on the solutions sheet for this topic.