



Q	Answer	Marks
1	a) 260 b) April and May	2
2	Points at (145, 6), (155, 11), (165, 9), (175, 4) joined with straight lines	2
3	a) time series graph b) scatter graph c) pie chart d) frequency polygon	2
4	a) 135 b) 54	3
5	a) £70 b) £47 c) The median, because the £190 is an extreme value that pulls the mean up (5 of the 6 earn less than the mean)	3
6	Boys Music) 12 Girls Art) 16 Girls Total) 45 Art Total) 30 Music Total) 30 Drama Total) 20	3
7	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
8	a) 9B leaves: 1 9, 2 2 4 5 6 8 9, 3 1 3 5 8 b) 9A median 23 s, range 29 s; 9B median 28 s, range 19 s c) 9A were quicker on average (lower median); 9B were more consistent (smaller range)	4
9	a) $30 < t \leq 40$ b) $20 < t \leq 30$ c) 25.5 minutes	4
10	a) positive correlation b) a straight line following the trend of the points c) approximately 53 (accept 49-57) d) 20 hours is outside the range of the data (0 to 9 hours), so the trend may not continue	4
EXTENSION QUESTIONS		
11	a) 120, 124, 126, 129, 132, 135, 137 b) The takings are increasing	3
12	a) 9, 24, 42, 54, 60 b) $30 < a \leq 40$	3
13	a) 19 minutes b) 12 minutes c) 26 minutes	3

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