



| Q | Answer                                                                                                                                                                                      | Marks |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1 | The mean of 9A (62) is higher, so on average 9A did better; the range of 9B (18) is smaller, so 9B results were more consistent                                                             | 2     |
| 2 | <b>a)</b> 17 <b>b)</b> 22                                                                                                                                                                   | 3     |
| 3 | <b>a)</b> Team A mean 2, range 4; Team B mean 2, range 2<br><b>b)</b> Team B, because its range is smaller                                                                                  | 4     |
| 4 | Girls' median (30) is higher than boys' median (27), so the girls scored more on average; girls' range (19) is smaller than boys' range (39), so the girls' scores were more consistent     | 3     |
| 5 | <b>a)</b> Route 12 mean 5 range 7; Route 15 mean 6 range 2<br><b>b)</b> Route 15 has a smaller range, so its delays are more consistent and predictable                                     | 4     |
| 6 | <b>a)</b> 37 minutes <b>b)</b> 32 minutes<br><b>c)</b> Class A slightly faster on average (lower median); Class B more consistent (smaller range)                                           | 4     |
| 7 | Fertiliser B: its median (35 cm) is higher than A's (29 cm), so B plants are taller on average, and its range (20 cm) is smaller than A's (29 cm), so B plants are more consistent          | 5     |
| 8 | Year 11 median (16 s) is lower than Year 7 median (20 s), so Year 11 were faster on average; Year 7 range (16 s) is smaller than Year 11 range (19 s), so Year 7 times were more consistent | 4     |

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