

- Q1.** The stem and leaf diagram shows information about the ages, in years, of the people on a fairground ride.

0	8	8	9					
1	1	2	3	4	4	4	6	7
2	1	2	3	4	5	6	8	
3	1	4	8					
4	2	3	6	8				
5	0	3						

Key: 4|2 means 42 years

- (a) How many people were on the fairground ride?

.....

(1)

- (b) Work out the median age.

.....

(1)

- (c) Work out the range of the ages.

.....

(2)

(Total 4 marks)

M1.

	Working	Answer	Mark	Additional Guidance
(a)		27	1	B1 cao
(b)	$(27 + 1)/2 = 14$ so 14th is median value	23	1	B1 cao
(c)	$53 - 8$	45	2	M1 for $53 - 8$ A1 cao [SC: B1 for 8 to 53 or $8 - 53$ oe or 8 and 53 identified if M0 A0 awarded]
				Total for Question: 4 marks

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Part (a) was generally correctly answered, careless rather than conceptual errors accounting for the greater number of mistakes.

Part (b) was poorly answered, clearly showing a lack of understanding of the ordering of information in a stem and leaf diagram. 3 and 22.5 were the most common errors here.

Only a half of the candidature was able to correctly find the range in part (c).

$50 - 8 = 42$ and $53 - 9 = 44$ were the usual errors together with $5 - 0 = 5$. Even when the readings of 53 and 8 were correctly achieved many didn't appreciate that they needed the difference and merely stated the two extremities.