STEM AND LEAF DIAGRAM

Pearson Edexcel - Tuesday 19 May 2020 - Paper 1 (Non-Calculator) Higher Tier

1.

7	20 or 24 or 168	B1	for identification of the range of the girls (20) **or** the range (24) **or** the median (168) of the boys	
	Comparison	C2	for a correct comparison of medians **and** a correct comparison of ranges supported by correct figures eg the median height for girls (165) is less than the median height for boys (168) and the range for girls (20) is less than the range for boys (24) At least one comparison must be in context referring to height or quoting cm.	Simply quoting values for median, range is insufficient; they must be compared.
		(C1	for a correct comparison of medians **or** a correct comparison of ranges that could ft their incorrect figure(s))	Context not necessary for C1

Pearson Edexcel - Friday 6 November 2015 - Paper 2 (Calculator) Higher Tier

2.

1		2 3 5 8 9 3 2 5 7 8 9 4 1 2 4 5 1 6 1 3	Stem and leaf with key	3	B2 for a fully correct ordered stem and leaf (B1 for a correct unordered stem and leaf or for an ordered stem and leaf with at most 1 error or omission) B1 (indep) for a correct key (units not required)

Pearson Edexcel - Thursday 4 June 2015 - Paper 1 (Non-Calculator) Higher Tier

3.

1	(a)		15 │6 9 16 │4 5 7 7 8 9 17 │2 3 6 6 8 9 18 │0 2 3 8 19 │0 2 with key	3	B2 for a correct ordered stem and leaf diagram (B1 for fully correct unordered or ordered with one error or omission) B1 (indep) for key (units not required)
	(b)		15	2	M1 for a method to find "3" as a percentage of the total number of men, eg $\frac{"3"}{"20"} \times 100$ oe $\frac{"3" \times 5}{100}$ or ft from their diagram A1 for 15 cao

Pearson Edexcel - Wednesday 5 November 2014 - Paper 1 (Non-Calculator) Higher Tier

4.

3		8 │ 4 8 9 9 │ 0 0 1 1 2 3 5 7 8 10 │ 2 3 6 8 11 │ 0 5 8 │ 4 represents 84(cm)	correct stem and leaf with key	3	B2 for a fully correct ordered diagram (B1 for a correct unordered diagram or ordered with at most two errors or omissions with stems 8, 9, 10 and 11 present) B1 for a correct key (units not necessary) Accept stem written as 80, 90, etc. but key only if consistent with this

Pearson Edexcel - Monday 9 June 2014 - Paper 1 (Non-Calculator) Higher Tier

5.

2		0|5 9 1|3 5 6 8 9 9 2|1 2 3 3 5 7 8 9 3|1 2 4 4|0	3	B2 for fully correct diagram. Accept a stem of 10, 20, etc. (B1 for ordered with at most 2 errors or omissions or for correct unordered diagram) B1 for a correct key (units may be omitted) consistent with diagram.

Pearson Edexcel - Tuesday 11 June 2013 - Paper 1 (Non-Calculator) Higher Tier

6.

3			2|4 7 8 3|0 3 3 5 7 8 8 4|1 1 2 4 4 5 Key,eg 4|1 is 4.1(kg)	3	B2 for correct ordered stem and leaf (B1 for fully correct unordered or ordered with one error or omission) B1 (indep) for key (units not required)

Pearson Edexcel - Monday 4 March 2013 - Paper 2 (Calculator) Higher Tier

7.

1			1 | 7 8 8 9 2 | 0 0 1 2 3 5 9 3 | 3 7 7 4 | 2 1 | 8 represents 18	3	B2 for a fully correct ordered diagram (B1 for correct unordered diagram or ordered with at most two errors or omissions) B1 for a correct key Accept stem written as 10, 20 etc but key only acceptable if consistent with this

Pearson Edexcel - Thursday 8 November 2012 - Paper 2 (Calculator) Higher Tier

8.

9	(a)		32	1	B1 cao
	(b)	LQ = 21 UQ = 45	24	2	M1 for 45 **or** 21 **or** 43.5 **or** 19.5 **or** 7.75th **or** 8th **or** 23.25th **or** 24th (all of above may be seen in working space or indicated on S&L) **or** clear attempt to find UQ and LQ from a list of values or in stem and leaf diagram A1 cao

Pearson Edexcel - Monday 11 June 2012 - Paper 1 (Non-Calculator) Higher Tier

9.

4		2|9
		3|1 3 5 6 9
		4|2 3 3 4 6 8 9
		5|2 4 5
		
		OR
		20|9
		30|1 3 5 6 9
		40|2 3 3 4 6 8 9
		50|2 4 5
			2|9
			3|1 3 5 6 9
			4|2 3 3 4 6 8 9
			5|2 4 5
			
			Key: 2|9 = 29
				3	B3 for fully correct diagram with appropriate key
					(B2 for ordered leaves, with at most two errors or omissions **and** a key
					   OR correct unordered leaves **and** a key
					   OR correct ordered leaves)
					(B1 for unordered or ordered leaves, with at most two errors or omissions
					   OR key)
					
					NB : Order of stem may be reversed; condone commas between leaves

Pearson Edexcel - Friday 2 March 2012 - Paper 3 (Non-Calculator) Higher Tier

10.

7	(a)		Correct Stem and Leaf diagram	3	B2 for a fully correct ordered diagram. (B1 for ordered with at most 2 errors or omissions **or** for correct unordered diagram) B1 for a correct key

Stem and leaf diagram (ordered):

6	1 7						
7	5 8 9						
8	0 2 5 6 9						
9	0 0 2 4 5 6 8						
10	3						

Key 6|1 represents 61 seconds

OR

```
 60 | 1 7
 70 | 5 8 9
 80 | 0 2 5 6 9
 90 | 0 0 2 4 5 6 8
100 | 3
```

Key 60|1 represents 61 seconds

(Accept a stem of 60, 70 etc but key only acceptable if consistent with this)

	(b)		87.5	2	M1 (ft ordered stem and leaf diagram) for median value is 9.5^{th} as evidenced by 9th and 10th seen **or** '86, 89' written **or** both ringed in the stem and leaf diagram **or** in a fully ordered list (with at most 2 errors or omissions) **or** indicated in an unambiguous way circled (ft stem and leaf diagram) **or** ('86' + '89') ÷ 2 (condone missing brackets) **or** 7.5 clearly coming from (6 + 9) ÷ 2 A1 for 87.5 **or** ft ordered stem and leaf diagram

Pearson Edexcel - Wednesday 9 November 2011 - Paper 3 (Non-Calculator) Higher Tier

11.

4		3.1	2	M1 sight of 11th value or digits 31 A1 3.1

Pearson Edexcel - Friday 10 June 2011 - Paper 4 (Calculator) Higher Tier

12.

6	(a)			3	B2 for a fully correct ordered diagram (B1 for correct unordered diagram or ordered with at most two errors or omissions) B1 for a correct key (Accept stem written as 10, 20 etc but key only acceptable if consistent with this)

```
1 | 6 8
2 | 1 5 7 8 8
3 | 0 6 6 6 8
4 | 1 5 8 8
```

Key: 1 | 6 = 16

	(b)	Middle numbers = 30 and 36	33	2	B2 for 33 or ft from ordered stem and leaf diagram (B1 for '30,36' written or both ringed in the ordered stem and leaf diagram or in a fully ordered list ft or indicated in an unambiguous way)

Pearson Edexcel - Tuesday 9 November 2010 - Paper 3 (Non-Calculator) Higher Tier

13.

| 10 | (a) | | 6 9
7 2 4 7 7 7 8
8 0 1 2 3 3 6
9 1 2

Key: 7 \| 2 = 72 | 3 | M1 for unordered stem and leaf diagram (condone 2 errors, 1 number misplaced counts as one error)
A1 for correctly ordered and fully correct diagram
NB: ignore commas between leaves, stems could be 60,70,80,90
B1 for key e.g. 7 \| 2 = 72 |
| | (b) | | 77 | 1 | B1 ft |

Pearson Edexcel - Monday 7 June 2010 - Paper 3 (Non-Calculator) Higher Tier

14.

| 2 | | | 4 \| 3 5 7 7
5 \| 0 3 3 5 6 7 8 8 8
6 \| 1 2 2

Key
Eg. 4 \| 3 means 43g | 3 | B2 for a fully correct diagram. Accept a stem of 40, 50, 60 (the order of the numbers in the stem may be reversed)
(B1 for ordered or unordered leaves, with just one error or omission)
B1 for a correct key (units may be omitted) |

Pearson Edexcel - Thursday 5 November 2009 - Paper 3 (Non-Calculator) Higher Tier

15.

| 5 | (a) | 3 \| 3 8 7
4 \| 6 1 4
5 \| 4 1 5 1 5 2
6 \| 0 2 3 | 3 \| 3 7 8
4 \| 1 4 6
5 \| 1 1 2 4 5 5
6 \| 0 2 3 | 3 | M1 for unordered diagram (condone one error, eg an omitted value or an incorrect value or a duplicated value or a misplaced value)
A1 cao
B1 for key (eg 4 \| 6 = 46, 30 \| 6 = 36) |
| | (b) | | $\dfrac{10}{15}$ | 2 | M1 numerator of 10 ft table or for denominator of 15
A1 $\dfrac{10}{15}$ oe |

16.