

STEM LEAF DIAGRAMS

TRANSCRIPT

Example 1

Exam Marks

45 57 63 50 57
 48 71 65 57 63
 44 58 61 70 49

15 data items

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

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

Key 5|6 = 56

Mode: 57 (occurs 3 times)

Median: 15 items (15+1 = 16, 16 ÷ 2 = 8 so 8th item)

Median = 57 (circled on diagram)

Range: Highest - Lowest

= 71 - 44

= 27

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Example 2 Weights in kg

75 57 93 60 72
 84 71 80 75 68
 88 78 61 70

14 data items

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

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

Key 6/3 = 63 kg

Mode: 75 kg (occurs twice)

Median: 14 items ($14 + 1 = 15$, $15 \div 2 = 7.5$
so between 7th and 8th items)

Median = 73.5 kg (Average of 72 and 75)

Range: 93 - 57 = 36 kg

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Example 3 Heights in cm

175 157 143 160 159
 164 171 164 175 183
 188 170 175

14	3
15	7 9
16	0 4 4
17	5 1 5 0 5
18	3 8

14	3
15	7 9
16	0 4 4
17	⊙ 1 5 5 5
18	3 8

Key 16/9 = 169cm

Mode: 175 cm (occurs 3 times)

Median: 13 items (13 + 1 = 14, 14 ÷ 2 = 7 7th item)

Median = 170 cm

Range: 188 - 143 = 45 cm

STEM LEAF DIAGRAMSTRANSCRIPTSummary

1. Decide what needs to form the stem.

Identify the highest and lowest data items and make sure stem is long enough to include both.

2. Go through the data adding leaves to the appropriate row of the stem.

3. Redraw the diagram ordering the leaves in each row.

4. Add a key.

