Stem Leaf Diagrams

Exl Exam Marks

15 deta items

Key 4 8 = 48 Median = 57

Range = 71-44 = 27

Ex2 Weights in kg

14 dafa items

Hey 6/1 = 61 kg

Median 73.5 kg

Range 93-57 = 36kg

Mode = 75kg

Ex3 Heights in cm

13 data items

- 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.

1. 15 students took a maths test. Construct a stem leaf diagram to represent their scores:

43	37	59	45	56
62	45	65	51	50
32	58	45	62	43

From your diagram find:

- a. The modal score
- b. The median score
- c. The range
- 2. 20 adults were weighed with the their weights recorded in kg. Represent their weights on a stem leaf diagram:

83	77	69	65	76
61	72	65	65	80
95	82	75	62	73
91	88	82	66	65

From your diagram find:

- a. The modal weight
- b. The median weight
- c. The range

3. 18 adults were measured with the their heights recorded in cm. Represent their heights on a stem leaf diagram:

183	157	169	156	176
181	176	165	169	180
175	182	175	152	177
181	174	176		

From your diagram find:

- d. The modal height
- e. The median height
- f. The range

EXERCISE

STEM LEAF DIAGRAMS

Mode = 45

Median 15 items
$$15+1=16$$
 $16=2=8 \Rightarrow 8^{th}$ item Median = 50

STEM LEAF DIAGRAMS

EXERCISE

$$key 7/3 = 73 kg$$

Median 20 items
$$20+1=21$$
 $21=2=10.5$ item 10.5
Median = 74 kg

EXERCISE

STEM LEAF DIAGRAMS

Mode = 45

Median 15 items 15+1 = 16 16=2 = 8
$$\Rightarrow$$
 8th item

Median = 50