

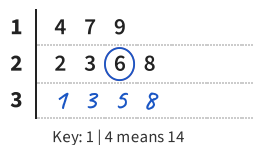
Stem-and-Leaf Diagrams

ANSWERS

1

23, 17, 35, 28, 31, 14, 26, 38, 22, 19, 33

- (a) Draw an ordered stem-and-leaf diagram.
(b) Find the median. (c) Find the range.

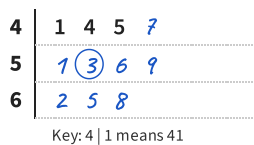


(b) Median 26
(c) Range $38 - 14 = 24$

2

41, 56, 47, 62, 53, 45, 68, 59, 44, 51, 65

- (a) Draw an ordered stem-and-leaf diagram.
(b) Find the median. (c) Find the range.

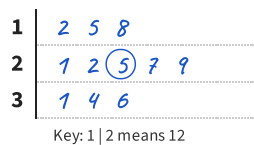


(b) Median 53
(c) Range $68 - 41 = 27$

3

12, 25, 31, 18, 27, 34, 15, 22, 29, 36, 21

- (a) Draw an ordered stem-and-leaf diagram.
(b) Find the median. (c) Find the range.

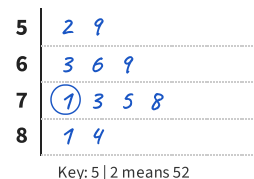


(b) Median 25
(c) Range $36 - 12 = 24$

4

63, 78, 71, 59, 84, 66, 75, 52, 69, 81, 73

- (a) Draw an ordered stem-and-leaf diagram.
(b) Find the median. (c) Find the range.

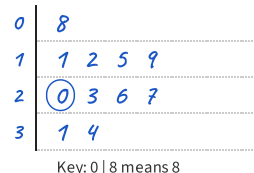


(b) Median 71
(c) Range $84 - 52 = 32$

5

8, 23, 15, 31, 12, 27, 19, 34, 26, 11, 20

- (a) Draw an ordered stem-and-leaf diagram.
(b) Find the median. (c) Find the range.

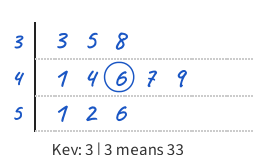


(b) Median 20
(c) Range $34 - 8 = 26$

6

47, 35, 52, 41, 38, 56, 44, 49, 33, 51, 46

- (a) Draw an ordered stem-and-leaf diagram.
(b) Find the median. (c) Find the range.

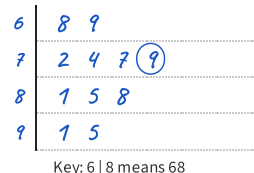


(b) Median 46
(c) Range $56 - 33 = 23$

7

72, 85, 91, 68, 79, 88, 74, 95, 81, 77, 69

- (a) Draw an ordered stem-and-leaf diagram.
(b) Find the median. (c) Find the range.

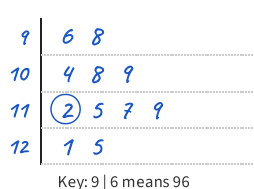


(b) Median 79
(c) Range $95 - 68 = 27$

8

104, 117, 98, 125, 109, 112, 121, 96, 115, 108, 119

- (a) Draw an ordered stem-and-leaf diagram.
(b) Find the median. (c) Find the range.



(b) Median 112
(c) Range $125 - 96 = 29$

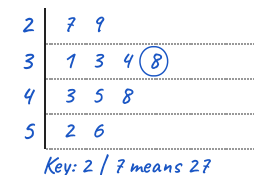
Stem-and-Leaf Diagrams *further practice*

ANSWERS

9

The ages of 11 people at a pottery class are 34, 52, 27, 45, 31, 38, 29, 56, 43, 33, 48

- (a) Draw an ordered stem-and-leaf diagram.
(b) Find the median. (c) Find the range.

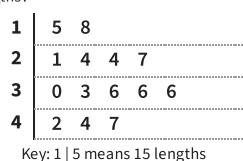


(b) Median 38
(c) Range $56 - 27 = 29$

10

The diagram shows how many lengths 14 swimmers swam.

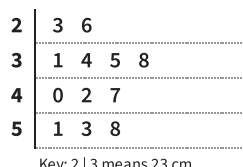
- (a) Find the mode. (b) Find the range.
(c) How many swimmers swam more than 40 lengths?



(a) Mode 36
(b) Range $47 - 15 = 32$
(c) 3

11

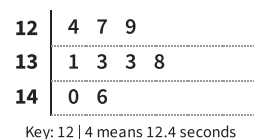
The diagram shows the heights of 12 tomato plants. Find the median height.



Median halfway between 38 and 40
39 cm

12

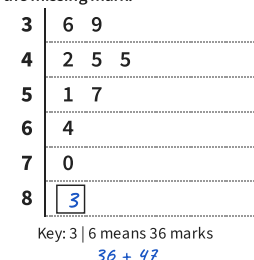
The diagram shows the times, in seconds, of 9 runners in a 100 m race. Find the median and the range.



Median 13.3 s
Range $14.6 - 12.4 = 2.2 s$

13

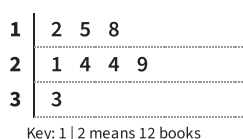
The diagram shows the marks of 10 students. One leaf is missing. The range of the marks is 47. Find the missing mark.



Answer 83

14

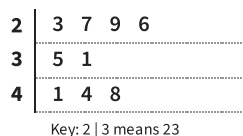
The diagram shows how many books 8 people read last year. Work out the mean number of books.



$176 \div 8$
Mean 22

15

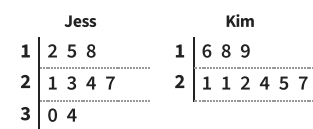
Ali drew this diagram for the data below. He says the median is 35. Explain his mistake and find the median.



his leaves are not in order
Median 31

16

The diagrams show the points Jess and Kim scored in 9 basketball games. Key: 1 | 2 means 12 points. Compare their scores, using the median and the range.



Jess scores more on average, Kim is more consistent
Jess median 23, range 22
Kim median 21, range 11