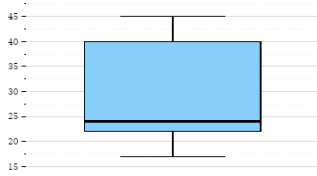


Calculate measures of spread

- 1** What is the interquartile range (IQR) of this box plot?



A 28 B 40 C 18 D 62

- 2** What is the interquartile range (IQR) of this data set?

$$\text{Median} = 33, \quad Q_1 = 32, \quad Q_3 = 40$$

A
40

B
8

C
72

D
32

- 3** Which city has more consistent temperatures?

City A : 20, 21, 19, 23, 17

City B : 27, 21, 30, 33, 39

A
City A

B
City B

- 4** Which class has a lower standard deviation?

Class A : 88, 76, 94, 82, 85

Class B : 78, 74, 76, 72, 75

A
Class A

B
Class B

- 5** Which city has a higher variance?

City A : 27, 39, 30, 33, 21

City B : 17, 20, 21, 19, 23

A
City A

B
City B

- 6** What is the standard deviation of this data set?

$$34, 40, 36, 28, 32$$
$$\text{variance} = 16$$

A
16

B
3

C
4

D
5

- 7** What is the standard deviation of this data set?

40, 28, 36, 34, 32

$$\text{mean} = 34$$

A
4

B
3

C
5

D
16

- 8** What is the interquartile range (IQR) of this data set?

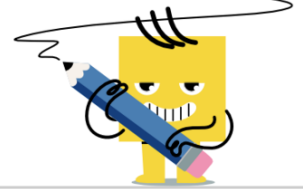
34, 54, 70, 45, 80, 70, 73, 76, 27, 14

A
73

B
66

C
107

D
39



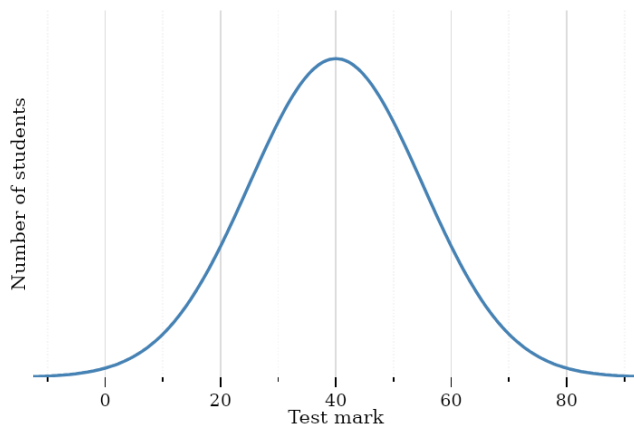
Calculate measures of spread

9

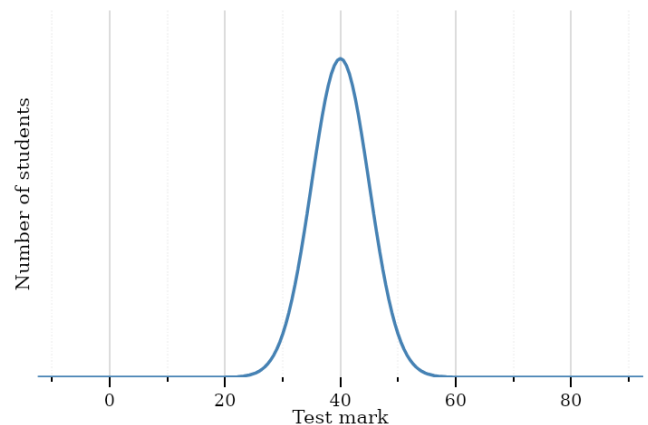
Which group of students has more consistent marks?

Which group of students has more consistent marks?

A



B



10

What is the interquartile range (IQR) of this data set?

34, 98, 25, 45, 37, 66, 47, 53, 44

A

95

B

59.5

C

24

D

73

11

What is the standard deviation of this data set?

35, 33, 34, 37, 31

A

3

B

1

C

2

D

4

12

What is the population variance of this data set?

35, 31, 34, 33, 37

mean = 34

A

2

B

3

C

5

D

4