



Compare data values from different distributions

1

Which player has more consistent scoring?

Player A : 23, 25, 21, 27, 24

Player B : 31, 34, 25, 43, 37

A

Player B

B

Player A

2

A exam mark is 0.6 standard deviations above the mean.

A

1.1

B

-0.6

C

1.0

D

0.6

3

A height has a z-score of -0.3.

A

0.5 standard deviations below the mean

B

0.3 standard deviations above the mean

C

0.3 standard deviations below the mean

D

1.3 standard deviations below the mean

4

A reaction time has a z-score of 0.2.

A

moderately below the mean

B

right around the mean

C

far above the mean

D

moderately above the mean

5

A test score of 63 comes from data with mean 72 and standard deviation 5.

A

Negative

B

Positive

6A test score of 83 comes from data with mean 80 and standard deviation 5. Use $z = (x - \text{mean}) / \text{standard deviation}$.

A

0.6

B

-0.6

C

1.0

D

1.1

7

A exam mark of 136 comes from data with mean 110 and standard deviation 20.

A

1.0

B

1.3

C

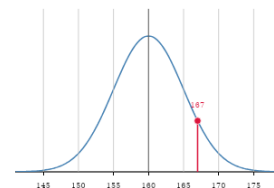
-1.3

D

1.8

8

Mean 160 cm, standard deviation 5 cm. Find the z-score of the marked point.



A 1.0

B 1.4

C 1.9

D -1.4



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Which performance was better?

Set A	Set B
Mean : 280 ms	Mean : 320 ms
SD : 10 ms	SD : 10 ms
Value : 267 ms	Value : 299 ms

A

Set A

B

Set B

10

Which performance was better?

Set A	Set B
Mean : 170 cm	Mean : 165 cm
SD : 10 cm	SD : 10 cm
Value : 183 cm	Value : 156 cm

A

Set B

B

Set A

11

Set A had the better performance (the higher z-score). Which pair of results fits?

A

Set A	Set B
Mean : 100	Mean : 120
SD : 10	SD : 10
Value : 87	Value : 132

B

Set A	Set B
Mean : 100	Mean : 120
SD : 10	SD : 10
Value : 112	Value : 107

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Set A had the better performance (the higher z-score). Which pair of results fits?

A

Set A	Set B
Mean : 320 ms	Mean : 300 ms
SD : 10 ms	SD : 10 ms
Value : 331 ms	Value : 315 ms

B

Set A	Set B
Mean : 320 ms	Mean : 300 ms
SD : 10 ms	SD : 10 ms
Value : 335 ms	Value : 311 ms