

Name:

Exam Style Questions

Comparing Distributions



Equipment needed: Ruler, pencil and pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 57c



Answers and Video Solutions



1. Here is some data about the visitors to a golf club.



Some of the visitors are members of the golf club and some are non-members.

	Mean age	Range of ages
Member	50.7	81
Non-members	34.1	82

Compare the data for members and non-members.
Make two comparisons.

Comparison 1

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Comparison 2

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(2)

2.

Miss Jackson gives her class a test.



Here is some data about the number of hours spent revising and their test result.

	Mean result	Range of results
less than 10 hours revision	48.8	57
10 or more hours revision	63.4	31

Compare the data for members and non-members.

Make two comparisons.

Comparison 1

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Comparison 2

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(2)

3. Here is some data about the time taken for three restaurants to deliver meals to their customers one evening.



	Mean (mins)	Range (mins)
Burger World	25.4	7.8
Chips'R'us	27.1	7.2
Pizza Time	48.1	33.5

- (a) Compare the mean delivery times.

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..... (1)

- (b) Compare the range of the delivery times.

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..... (1)

4. A talent competition is held for performers.
Some of the performers are singers and the rest are dancers.



Each performer is awarded a score out of 10.

The table shows data about the scores.

	Percentage	Mean score	Range of scores
Singer	68%	8.1	1.5
Dancer	32%	6.2	3.2

- (a) Compare the proportion of performers that are singers and that are dancers.

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(1)

- (b) Compare the average scores.

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(1)


- (c) Compare the spread of the scores.

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(1)

5.  A company has produced two television advertisements. The company surveys a large number of people about their preferred advertisement.

Here is their findings.

	Percentage	Mean age	Range of ages
Advert A	19%	58.4	41
Advert B	81%	26.1	25

Compare the data for the people who preferred Advert A with the data for the people who preferred Advert B.

Make three comparisons.

Comparison 1

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Comparison 2

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Comparison 3

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(3)