

4 Draw lines to match the terms with their definitions. [3]

- | | |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>A Normal distribution</p> <p>B Cause and effect</p> <p>C EV</p> | <p>i) Any variable that the researcher aims to keep constant/controlled</p> <p>ii) Set of data where the middle values are common, while more extreme ones are rarer</p> <p>iii) A relationship where changing one variable results in another variable changing</p> |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

5 A researcher makes the prediction below at the start of an experiment. What term is used for this type of prediction? [1]

If listening to classical music has a beneficial effect on memory, then participants who study with background classical music will remember more facts in a test than participants who do not.

Design of Experiments 1 and 2

1 Name the research design where all participants take part in every condition of the experiment. [1]

2 Tick (✓) or cross (X) the statements about research ethics to indicate whether they are true or false. [4]

| Statements about research ethics | True (✓) or false (X)? |
|----------------------------------------------------------------------|------------------------|
| Participant data must be kept confidential. | |
| Once participants have given consent, they can't back out. | |
| Harm can include psychological harm, distress or embarrassment. | |
| The usual practice is to get informed consent at the end of a study. | |

3 A researcher wishes to study the memory of university students, and carries out a memory experiment in a university library. What kind of experiment is this? [1]