A magazine company conducted a survey of the ages of its readers.

A sample of ten readers' ages, in years, are shown below.

33 55 38 47 36 41 42 41 35 31

(a) Calculate the median and interquartile range of the ages of readers for this sample.   **3**

A newspaper company also conducted a survey of the ages of its readers.

The median age of a sample of its readers was 41 years and the interquartile range was 9 years.

(b) Make two valid comments comparing the ages of the readers of the magazine and the ages of the readers of the newspaper.   **2**

Answers:

(a)   Median = 39.5

IQR = 7

(b)   On average, the ages of the newspaper readers are higher.

The ages of the newspaper readers are more varied.

(or equivalent statements)