

- 11 A bus company recorded the ages, in years, of the people on coach A and the people on coach B.

Here are the ages of the 23 people on coach A.

41    42    44    48    52    53    53    53    56    57    57    59  
60    61    63    64    64    66    67    69    74    77    79

- (a) Complete the table below to show information about the ages of the people on coach A.

Median	
Lower quartile	
Upper quartile	
Least age	41
Greatest age	79

(2)

Here is some information about the ages of the people on coach B.

Median	70
Lower quartile	54
Upper quartile	73
Least age	42
Greatest age	85

Richard says that the people on coach A are younger than the people on coach B.

- (b) Is Richard correct?

You must give a reason for your answer.

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(1)



Richard says that the people on coach A vary more in age than the people on coach B.

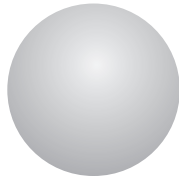
(c) Is Richard correct?

You must give a reason for your answer.

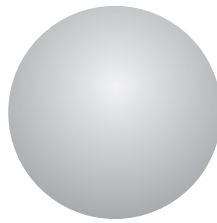
(1)

(Total for Question 11 is 4 marks)

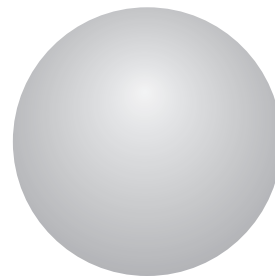
12 Here are three spheres.



**P**



**Q**



**R**

The volume of sphere **Q** is 50% more than the volume of sphere **P**.

The volume of sphere **R** is 50% more than the volume of sphere **Q**.

Find the volume of sphere **P** as a fraction of the volume of sphere **R**.

(Total for Question 12 is 3 marks)

