

## Interpreting quartiles

This table gives some statistics on net annual household income in the UK for single adults.

Lower Quartile:	£10,270
Median:	£14,628
Upper Quartile:	£20,802

Use the table to complete the sentences below.

*The Guardian, 2010-2011*

The average income is £\_\_\_\_\_. The top 25% of people earn more than £\_\_\_\_\_.

A single adult chosen at random has a \_\_\_\_\_% chance of earning more than £10,270.

The middle 50% of people earn between £\_\_\_\_\_ and £\_\_\_\_\_.

The interquartile range is £\_\_\_\_\_.

### Interpreting Percentiles

This table gives some more details from the same data.

1 <sup>st</sup> percentile:	£1,170
10 <sup>th</sup> percentile:	£7,541
90 <sup>th</sup> percentile:	£29,538
99 <sup>th</sup> percentile:	£73,024

Use the table to write your own statements describing what it tells you.

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## Interpreting quartiles SOLUTIONS

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Median:	£14,628
Upper Quartile:	£20,802

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*The Guardian, 2010-2011*

The average income is **£14,628**. The top 25% of people earn more than **£20,802**.

A single adult chosen at random has a **75%** chance of earning more than £10,270.

The middle 50% of people earn between **£10,270** and **£20,802**.

The interquartile range is **£10,532**.

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### **Example statements:**

**The top 1% of people earn more than £73,024. The bottom 99% earn less than £73,024.**

**The bottom 1% of people earn less than £1,170. The top 99% earn more than £1,170.**

**The top 10% of people earn more than £29,538. The bottom 90% earn less than £29,538.**

**The bottom 10% of people earn less than £7,541. The top 90% earn more than £7,541.**

**The middle 80% of people earn between £7,541 and £29,538.**

**The middle 98% of people earn between £1,170 and £73,024.**

**The gap between the top 1% and bottom 1% is £71,854.**