

GCSE Statistics - Diagnostic test

Crude rates and Index numbers

NAME: _____

1

At the beginning of 2008 the village of Scotter had a population of 8000
During 2008 there were 25 births in the village.

- (a) Calculate the crude birth rate for Scotter in 2008.

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.....

Answer (3 marks)

- (b) The crude death rate for Scotter in 2008 was 5
Has the population of Scotter gone up or down in 2008?

Give a reason for your answer.

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.....

Answer (2 marks)

2

The table shows the cost indices for renting a shop, using 1997 as the base year.

| Year | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------------|------|------|------|------|------|------|
| Cost Index | 100 | 115 | 96 | 118 | 110 | 113 |

(a) In which years did the rent fall?

Answer (2 marks)

(b) The annual rent was £6900 in 1998.

(i) Calculate the annual rent in 1997.

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Answer £ (2 marks)

(ii) Calculate the annual rent in 2002.

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Answer £ (2 marks)

(c) In which year was the annual rent the highest?

Answer (1 mark)

(d) Calculate the percentage increase in the annual rent between 2001 and 2002.

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Answer % (3 marks)

Total _____ out of 15