Worksheet 2

Name Class Date

**Calculating averages**

Answer the following questions, giving your answers to two decimal places.

**1** Calculate the productivity per worker per month of a factory making jeans. The company employs 108 staff and manufactures 45,639 pairs of jeans.

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**2** Following an extensive staff training programme, output rises by 8.6%. Calculate the change in productivity per worker per month.

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**3** In an effort to reduce costs, the company decides to make 17 workers redundant. If the output per worker is still unchanged after the training programme, calculate the percentage change in the new level of total output for the firm.

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**4** Complete the table and identify the point where the firm achieves maximum productivity.

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| --- | --- | --- |
| Output (units) | Total cost (£) | Average cost (£) |
| 0 | 200 |  |
| 50 | 230 |  |
| 100 | 290 |  |
| 150 | 335 |  |
| 200 | 360 |  |
| 250 | 380 |  |
| 300 | 400 |  |
| 350 | 480 |  |
| 400 | 600 |  |
| 450 | 750 |  |
| 500 | 1000 |  |