

### N4 Applications of Maths - AVU Paper 1 Revision 3

1.	Robert buys a sausage supper for £4.95 and a bottle of irn bru for 93p. He pays with a £20 note. How much change will he get?
2.	The length of a helicopter is 260 cm. A model of this helicopter is $\frac{3}{10}$ the size of the actual helicopter. What is the length of the model?
3.	<p>Anna works for a company which makes bolts. She checks a sample of 10 bolts. The length of the bolts, in centimetres, are shown below:</p> <p style="text-align: center;">5.2, 5.0, 4.6, 4.8, 5.2, 5.6, 5.3, 4.5, 5.1, 4.8</p> <p>Bolts with a length of <math>5 \pm 0.2</math> centimetres are acceptable.</p> <p>State the lengths of the nails in the above list that are <b>not acceptable</b>.</p>
4.	<p>Jenna wants to deposit £1600 in a bank for 1 year.</p> <p>The Independent Bank will pay her a reward of £3 per month.</p> <p>The Jubilee Bank will pay her interest at 4% per annum.</p> <p>Based on your calculations, which bank should Jenna choose? Give a reason for your answer.</p>
5.	<p>The cost of the same pack of rolls in six different shops is:</p> <p style="text-align: center;">£1.78, £1.34, £1.28, £1.97, £1.74, £1.45</p> <p>Calculate the <b>mean</b> cost of the rolls. Round your answer to the nearest penny.</p>

### N4 Applications of Maths - AVU Paper 1 Revision 2

1.	Robert buys a sausage supper for £6.70 and a bottle of irn bru for 87p. He pays with a £20 note. How much change will he get?
2.	The length of a helicopter is 450 cm. A model of this helicopter is $\frac{3}{10}$ the size of the actual helicopter. What is the length of the model?
3.	<p>Anna works for a company which makes bolts. She checks a sample of 10 bolts. The length of the bolts, in centimetres, are shown below:</p> <p style="text-align: center;">4.2, 4.0, 3.6, 3.8, 4.2, 4.6, 4.3, 3.5, 4.1, 3.8</p> <p>Bolts with a length of <math>4 \pm 0.3</math> centimetres are acceptable.</p> <p>State the lengths of the nails in the above list that are <b>not acceptable</b>.</p>
4.	<p>Jenna wants to deposit £1800 in a bank for 1 year.</p> <p>The Independent Bank will pay her a reward of £3 per month.</p> <p>The Jubilee Bank will pay her interest at 2% per annum.</p> <p>Based on your calculations, which bank should Jenna choose? Give a reason for your answer.</p>
5.	<p>The cost of the same pack of rolls in six different shops is:</p> <p style="text-align: center;">£1.37, £1.35, £1.54, £1.51, £1.42, £1.77</p> <p>Calculate the <b>mean</b> cost of the rolls. Round your answer to the nearest penny.</p>