College of Nursing, Midwifery and Healthcare
Sample - Selection Day Numeracy Test

There are 20 questions to be answered. You have 20 minutes to complete the test. Calculators may be used, but only conventional calculators can be used. Mobile phones must be switched off during the test please. Do not begin the test until you are instructed to do so by the test invigilator.

Please complete in BLOCK CAPITALS

Surname: __________________________
First name: ________________________
Course applying for: ________________________
Date: ________________________

Site: LONDON or BERKSHIRE (please Circle)

Common Conversions

1 kilogram (kg) = 1000 grams (g)  
1 litre (L) = 1000 millilitres (mls)

1 kilogram = 2.2 pounds (lbs)  
12 inches = 1 foot

1 gram = 1000 milligrams (mg)  
1 metre = 3.2 feet

1 milligram (mg) = 1000 micrograms (mcg)  
1 metre = 39.3 inches

1 stone = 14 pounds  
1 teaspoon = 5 millilitre (ml)

1 fluid ounce = 28.4 millilitres (mls)

RESULTS

<table>
<thead>
<tr>
<th>Overall Outcome</th>
<th>Descriptor</th>
<th>Overall Result (enter score)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 13</td>
<td>Place not offered</td>
<td></td>
</tr>
<tr>
<td>14 - 20</td>
<td>Place offered (subject to meeting all other requirement)</td>
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</tbody>
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Markers Name (PLEASE PRINT) ........................................................................................................

Markers signature .................................................................................................................................
Question 1
Convert 565 milligrams to grams.

Use this space for your workings

Q1 Answer

Question 2
You earn £6.23 per hour and work for 34.5 hours. How much will you earn (to the nearest penny)?

Use this space for your workings

Q2 Answer

Question 3
How many millilitres (mL) are in 6.75 litres?

Use this space for your workings

Q3 Answer

Question 4
A patient weighs 198 pounds and wants to lose 5kg. If one kilogram is approximately 2.2 pounds, what would the patient’s new weight be, in pounds, if they lost the desired amount?

Use this space for your workings

Q4 Answer

Question 5
Convert 6000 millilitres to litres.

Use this space for your workings

Q5 Answer
There are 20 questions in this test. Pass mark is 70% (14/20)

Question 6
You buy three items costing £5.88, £3.95 and £6.05 at the supermarket. You pay with a £20 note. How much change will you have?

Use this space for your workings

Q6 Answer

Question 7
A cake weighs 1kg and is divided into eight equal pieces. If six slices have been eaten what weight of cake is remaining in grams?

Use this space for your workings

Q7 Answer

Question 8
The ratio of male to female students is 1:15. If there are 4 male students, how many female students are there?

Use this space for your workings

Q8 Answer

Question 9
You leave home at 1.15pm and travel to work, arriving at 2.42pm. How long did your journey take you, in minutes?

Use this space for your workings

Q9 Answer
There are 20 questions in this test. Pass mark is 70% (14/20)

**Question 10**
What is the average age of 10 children who attend a clinic? Their ages are (in years): 9, 7, 12, 15, 8, 13, 7, 10, 11, 8.

<table>
<thead>
<tr>
<th>Use this space for your workings</th>
<th>Q10 Answer</th>
</tr>
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**Question 11**
You purchase six items which cost £2.99 each and three items which cost £3.85 each. You give the cashier three ten-pound notes. How much change should you be given in pence?

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<tr>
<th>Use this space for your workings</th>
<th>Q11 Answer</th>
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<tbody>
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**Question 12**
Your monthly income is £582.75. You decide to save 10% of this. How much do you save each month (to the nearest penny)?

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<thead>
<tr>
<th>Use this space for your workings</th>
<th>Q12 Answer</th>
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<tbody>
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</table>

**Question 13**
Change 7/8 into a decimal.

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<thead>
<tr>
<th>Use this space for your workings</th>
<th>Q13 Answer</th>
</tr>
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<tbody>
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</tbody>
</table>
Question 14
Orange squash is diluted 1 part squash with 4 parts water. How much water, in mL, do you need to add to 30mL squash?

Use this space for your workings

Q14 Answer

Question 15
Multiply 7.93 by 12.08. Provide your answer to one decimal place.

Use this space for your workings

Q15 Answer

Question 16
71 - 53 =

Use this space for your workings

Q16 Answer

Question 17
Convert 325mg to grams

Use this space for your workings

Q17 Answer

Question 18
4.78 + 5.84 =

Use this space for your workings

Q18 Answer
There are 20 questions in this test. Pass mark is 70% (14/20)

Question 19
How many metres are there in 2.5Km?

<table>
<thead>
<tr>
<th>Use this space for your workings</th>
<th>Q19 Answer</th>
</tr>
</thead>
</table>

Question 20
Multiply 34 x 52.6 =

<table>
<thead>
<tr>
<th>Use this space for your workings</th>
<th>Q 20 Answer</th>
</tr>
</thead>
</table>

End of Test

Additional Resources

Additional numeracy revision resources are available at the following website:

- [http://www.snap.nhs.uk/](http://www.snap.nhs.uk/)

The University of West London strongly suggests that all candidates register to the website and use this to prepare for the Selection Day test.

Further resources are available on the BBC Skillwise website at the following link:

- [http://www.bbc.co.uk/skillswise/math](http://www.bbc.co.uk/skillswise/math)
There are 20 questions in this test. Pass mark is 70% (14/20)

## Answer

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
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<tbody>
<tr>
<td>1</td>
<td>0.565 grams</td>
</tr>
<tr>
<td>2</td>
<td>£214.94</td>
</tr>
<tr>
<td>3</td>
<td>6750 mL</td>
</tr>
<tr>
<td>4</td>
<td>187 pounds</td>
</tr>
<tr>
<td>5</td>
<td>6 litres</td>
</tr>
<tr>
<td>6</td>
<td>£4.12</td>
</tr>
<tr>
<td>7</td>
<td>250 grams</td>
</tr>
<tr>
<td>8</td>
<td>60 female students</td>
</tr>
<tr>
<td>9</td>
<td>87 minutes</td>
</tr>
<tr>
<td>10</td>
<td>10 years</td>
</tr>
<tr>
<td>11</td>
<td>51p</td>
</tr>
<tr>
<td>12</td>
<td>£58.28</td>
</tr>
<tr>
<td>13</td>
<td>0.875</td>
</tr>
<tr>
<td>14</td>
<td>120 mL</td>
</tr>
<tr>
<td>15</td>
<td>95.8</td>
</tr>
<tr>
<td>16</td>
<td>13</td>
</tr>
<tr>
<td>17</td>
<td>0.325 grams</td>
</tr>
<tr>
<td>18</td>
<td>10.62</td>
</tr>
<tr>
<td>19</td>
<td>2500 metres</td>
</tr>
<tr>
<td>20</td>
<td>1,788.40</td>
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