Example Numerical Reasoning Questions
Difficulty: easy

Instructions

Just like the real numerical reasoning test, this example test has two ‘subtests’. The first subtest assesses your ability to interpret numerical information and perform calculations. The second subtest assesses your ability to make decisions based on numerical data.

This example test has just two questions in each subtest, which are all easier than the questions in the real test. The real test will have 8 questions of increased difficulty in each subtest.

There is no time limit for these example questions, so take your time. In the real test there is a time limit of 60 seconds per question.

For these example questions you can check your answers with the solutions given at the end of this document. Make sure that you understand the solution to each question before starting the real test.

These example questions will be easier than those in the real test, which will contain questions of varying difficulty.

The example questions follow on the next page.
**Subtest 1 of 2**

This first subtest contains two questions and there is no time limit. In the real test this subtest will contain eight questions and there will be a time limit of 60 seconds per question.

This subtest measures your ability to interpret numerical information and perform calculations. You will be presented with short numerical problems, requiring a number of calculations to solve. For each question you will be presented with six possible options, only one of which is correct. You will need a calculator and some rough paper to complete this subtest.
Subtest 1

Q1) Douglas has 8 gallons of petrol in the fuel tank of his car. On average, Douglas's car can travel 65 miles per gallon (mpg). With this in mind, what is the furthest Douglas will be able to travel in his car using only this amount of petrol?

- 120 miles
- 280 miles
- 320 miles
- 480 miles
- 520 miles

Q2) A crane can carry any quantity of bricks provided the maximum load at any one time does not exceed 500kg. What is the lowest number of separate lifts the crane can make in order to move 3,300kg of bricks?

- 5
- 6
- 7
- 8
- 9

-- End of subtest 1 --
Subtest 2 of 2

This second subtest contains two questions and there is no time limit. In the real test this subtest will contain eight questions and there will be a time limit of 60 seconds per question.

This subtest measures your ability to make decisions and apply decision-making rules based on numerical data. You will be presented with tables of numerical data, and your task is to make real-world decisions based on its contents. For each question you will be presented with six possible options, only one of which is correct. You will need a calculator and some rough paper to complete this subtest.
Q3) You select the three properties with the highest rating for "Location". From the selected properties, you select the 2 properties with the highest rating for “Interior”. You then select the property with the lowest “Price”. Which property to do select?

<table>
<thead>
<tr>
<th>Property</th>
<th>Location</th>
<th>Interior</th>
<th>Exterior</th>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>46 Leadwell Ln</td>
<td>9</td>
<td>5</td>
<td>7</td>
<td>3</td>
<td>£337,000.00</td>
</tr>
<tr>
<td>15 Elterwater Rd</td>
<td>8</td>
<td>8</td>
<td>7</td>
<td>3</td>
<td>£301,200.00</td>
</tr>
<tr>
<td>73 Newgate St</td>
<td>1</td>
<td>2</td>
<td>5</td>
<td>6</td>
<td>£587,800.00</td>
</tr>
<tr>
<td>82 Ponteland Rd</td>
<td>5</td>
<td>3</td>
<td>1</td>
<td>7</td>
<td>£483,500.00</td>
</tr>
<tr>
<td>67 Haslemere Rd</td>
<td>4</td>
<td>6</td>
<td>5</td>
<td>4</td>
<td>£356,600.00</td>
</tr>
</tbody>
</table>

Ratings Key:

- Extremely Low: 1
- Below Average: 4
- High: 7
- Very Low: 2
- Medium: 5
- Very High: 8
- Low: 3
- Above Average: 6
- Extremely High: 9

46 Leadwell Ln 15 Elterwater Rd 73 Newgate St 82 Ponteland Rd
67 Haslemere Rd None of the above
Q4) You want to buy a phone with a “Monthly Contract Fee” of £25 or less. What is the highest rating of “Processing Power” that phone could have?

<table>
<thead>
<tr>
<th>Mobile Phone</th>
<th>Battery Life</th>
<th>Processing Power</th>
<th>Data Storage</th>
<th>Monthly Contract Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHC 3</td>
<td>1</td>
<td>8</td>
<td>2</td>
<td>£19.00</td>
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<tr>
<td>Sonophone Mini</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>£20.00</td>
</tr>
<tr>
<td>Audia Touch</td>
<td>9</td>
<td>2</td>
<td>6</td>
<td>£21.00</td>
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<tr>
<td>Connex 2</td>
<td>1</td>
<td>9</td>
<td>1</td>
<td>£40.00</td>
</tr>
<tr>
<td>DigiSMART V5</td>
<td>6</td>
<td>8</td>
<td>2</td>
<td>£18.00</td>
</tr>
</tbody>
</table>

Ratings Key:

<table>
<thead>
<tr>
<th>Rating</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extremely Low</td>
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<td>Very High</td>
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<td></td>
</tr>
</tbody>
</table>

Q4) You want to buy a phone with a “Monthly Contract Fee” of £25 or less. What is the highest rating of “Processing Power” that phone could have?

2  3  5  6  8  9

-- End of example questions --
Solutions

These example questions come with solutions so that you can check your understanding of the type of questions you will be asked in the real test.

Example Question Answers

Q1) Douglas has 8 gallons of petrol in the fuel tank of his car. On average, Douglas’s car can travel 65 miles per gallon (mpg). With this in mind, what is the furthest Douglas will be able to travel in his car using only this amount of petrol?

120 miles 280 miles 320 miles 480 miles 520 miles

At 65 miles per gallon with 8 gallons the calculation is simply 65 x 8 = 520.

Correct Answer: 520

Q2) A crane can carry any quantity of bricks provided the maximum load at any one time does not exceed 500kg. How many separate lifts does the crane need to make in order to move 3,300kg of bricks?

5 6 7 8 9

We can see that 500 doesn’t divide exactly into 3,300. So either we divide 3,000 by 500 and then add one final lift (6 + 1 = 7) or we calculate 3,300 ÷ 500 = 6.6 and recognise that we need to round up to 7 since 0.6 of a lift doesn’t really mean anything.

Correct Answer: 7
Q3) You select the three properties with the highest rating for "Location". From the selected properties, you select the 2 properties with the highest rating for "Interior". You then select the property with the lowest "Price". Which property to do select?

46 Leadwell Ln  15 Elterwater Rd  73 Newgate St  82 Ponteland Rd  67 Haslemere Rd

None of the above

The three properties with the highest rating for Location are 46 Leadwell Ln, 15 Elterwater Rd, and 82 Ponteland Rd. Then looking at ratings for Interior we discard 82 Ponteland Rd, then looking at ratings for Price we finally pick 15 Elterwater Rd.
Q4) You want to buy a phone with a “Monthly Contract Fee” of £25 or less. What is the highest rating of “Processing Power” that phone could have?

All the phones except Connex 2 have a Monthly Contract Fee of £25 or less. So excluding Connex 2 we see that the highest rating for Processing Power we can get is 8 (both LHC 3 and DigiSMART V5)