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# Numerical Reasoning Practice Test 2

Many employers use psychometric testing in their recruitment process, with numerical reasoning tests often included.

The questions used in the following test are based on those available on the [www.assessmentday.co.uk](http://www.assessmentday.co.uk) and [www.graduatesfirst.com](http://www.graduatesfirst.com) websites.

**This test comprises 23 questions and you have 25 minutes to complete it.**

The main numerical skills required for the test typically relate to percentages, ratios and reading/interpreting charts and graphs. Often the same data is used for several questions, so it is advisable get a clear grasp of the context before starting your calculations.

Calculators are allowed, so make sure that you are familiar with yours and are confident in using it.

**www.sigma-network.ac.uk Numerical Reasoning Test 2**

## **Question 1**

The table below summarises the turnover (in £) at a Café over a month period.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **January** | **February** | **March** | **April** | **May** |
| **Hot food** |  |  |  |  |  |
| **Cold food** |  |  |  |  |  |
| **Hot drink** |  |  |  |  |  |
| **Cold drink** |  |  |  |  |  |
| **Other** |  |  |  |  |  |

What was the average monthly turnover from hot drink?

## Question 2

The table below summarises the turnover (in £) at a Café over a month period.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **January** | **February** | **March** | **April** | **May** |
| **Hot food** |  |  |  |  |  |
| **Cold food** |  |  |  |  |  |
| **Hot drink** |  |  |  |  |  |
| **Cold drink** |  |  |  |  |  |
| **Other** |  |  |  |  |  |

In which month was the turnover from drink greatest?

January

February

March

April

May

## **Question** 3

The table below summarises the turnover (in £) at a Café over a month period.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **January** | **February** | **March** | **April** | **May** |
| **Hot food** |  |  |  |  |  |
| **Cold food** |  |  |  |  |  |
| **Hot drink** |  |  |  |  |  |
| **Cold drink** |  |  |  |  |  |
| **Other** |  |  |  |  |  |

What is the percentage change in turnover for food between March and April?

## Question 4

The table below summarises the turnover (in £) at a Café over a month period.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **January** | **February** | **March** | **April** | **May** |
| **Hot food** |  |  |  |  |  |
| **Cold food** |  |  |  |  |  |
| **Hot drink** |  |  |  |  |  |
| **Cold drink** |  |  |  |  |  |
| **Other** |  |  |  |  |  |

For the period from January to March inclusive, what was the ratio of the turnover between hot drink and cold drink?

## Question 5

The table below summarises the turnover (in £) at a Café over a month period.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **January** | **February** | **March** | **April** | **May** |
| **Hot food** |  |  |  |  |  |
| **Cold food** |  |  |  |  |  |
| **Hot drink** |  |  |  |  |  |
| **Cold drink** |  |  |  |  |  |
| **Other** |  |  |  |  |  |

In February, if the hot food takings is increased by and the cold food takings is decreased by , what percentage change would this have on the total February turnover?

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## Question 6

The table below summarises the turnover (in £) at a Café over a month period.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **January** | **February** | **March** | **April** | **May** |
| **Hot food** |  |  |  |  |  |
| **Cold food** |  |  |  |  |  |
| **Hot drink** |  |  |  |  |  |
| **Cold drink** |  |  |  |  |  |
| **Other** |  |  |  |  |  |

A forecast for June based on May predicts that turnover from hot food and hot drink will fall by 30% and that Other will remain unchanged. If the June turnover is to equal the May turnover, what percentage increase will be required in cold food and cold drink sales?

## Question 7

The table below summarises the turnover (in £) at a Café over a month period.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **January** | **February** | **March** | **April** | **May** |
| **Hot food** |  |  |  |  |  |
| **Cold food** |  |  |  |  |  |
| **Hot drink** |  |  |  |  |  |
| **Cold drink** |  |  |  |  |  |
| **Other** |  |  |  |  |  |

For Other, over the period January to April, which month showed the most significant percentage difference in size (hence could be positive or negative) compared with the previous month?

January

February

March

April

Cannot tell

## Question 8

A company’s annual profits from different parts of the world in 2015, 2016 and 2017 are , and respectively.

What is the percentage increase in the UK profits between 2015 and 2017?

## Question 9

A company’s annual profits from different parts of the world in 2015, 2016 and 2017 are , and respectively.

For the period 2015-2017 inclusive, over how many years does the profit from Europe (less UK) exceed the profit from Australia?

Cannot tell

## Question 10

A company’s annual profits from different parts of the world in 2015, 2016 and 2017 are , and respectively.

In 2016 what percentage of the profits from the whole of Europe came from the UK?

## Question 11

A company’s annual profits from different parts of the world in 2015, 2016 and 2017 are , and respectively.

Which of the following best represents the ratio of profits between USA in 2016 with UK in 2017?

## Question 12

A company’s annual profits from different parts of the world in 2015, 2016 and 2017 are , and respectively.

For the UK, in which of the two previous years do the profits fall below those from 2017?

2015

2016

Neither

Both

Cannot tell

## Question 13

A company’s annual profits from different parts of the world in 2015, 2016 and 2017 are , and respectively.

What are the average profits from Asia over the last two years?

## Question 14

The table below summarises the number of visitors to a museum over a month period.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Adult**  **(at )** | **Junior**  **(at )** | **Concession**  **(at )** | **Free**  **(at )** | **Total** |
| **May** |  |  |  |  |  |
| **June** |  |  |  |  |  |
| **July** |  |  |  |  |  |
| **August** |  |  |  |  |  |
| **September** |  |  |  |  |  |

What percentage of the fee paying visitors in August are Juniors?

## Question 15

The table below summarises the number of visitors to a museum over a month period.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Adult**  **(at )** | **Junior**  **(at )** | **Concession**  **(at )** | **Free**  **(at )** | **Total** |
| **May** |  |  |  |  |  |
| **June** |  |  |  |  |  |
| **July** |  |  |  |  |  |
| **August** |  |  |  |  |  |
| **September** |  |  |  |  |  |

In which month is the highest percentage of Concessions recorded?

May

June

July

August

September

## Question 16

The table below summarises the number of visitors to a museum over a month period.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Adult**  **(at )** | **Junior**  **(at )** | **Concession**  **(at )** | **Free**  **(at )** | **Total** |
| **May** |  |  |  |  |  |
| **June** |  |  |  |  |  |
| **July** |  |  |  |  |  |
| **August** |  |  |  |  |  |
| **September** |  |  |  |  |  |

What is the percentage increase in the number of Juniors visiting in July compared to June?

## Question 17

The table below summarises the number of visitors to a museum over a month period.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Adult**  **(at )** | **Junior**  **(at )** | **Concession**  **(at )** | **Free**  **(at )** | **Total** |
| **May** |  |  |  |  |  |
| **June** |  |  |  |  |  |
| **July** |  |  |  |  |  |
| **August** |  |  |  |  |  |
| **September** |  |  |  |  |  |

For all visitors in May what is the average admission price paid?

## Question 18

The table below summarises the number of visitors to a museum over a month period.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Adult**  **(at )** | **Junior**  **(at )** | **Concession**  **(at )** | **Free**  **(at )** | **Total** |
| **May** |  |  |  |  |  |
| **June** |  |  |  |  |  |
| **July** |  |  |  |  |  |
| **August** |  |  |  |  |  |
| **September** |  |  |  |  |  |

In the three months July-September, what is the ratio of the income from Adults to the income from Juniors?

## Question 19

The table below summarises the number of visitors to a museum over a month period.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Adult**  **(at )** | **Junior**  **(at )** | **Concession**  **(at )** | **Free**  **(at )** | **Total** |
| **May** |  |  |  |  |  |
| **June** |  |  |  |  |  |
| **July** |  |  |  |  |  |
| **August** |  |  |  |  |  |
| **September** |  |  |  |  |  |

In which month did the lowest weekly total of free admissions occur?

May

June

September

May, June or September

Cannot tell

## Question 20

The breakdown of the membership of a tennis club over five years is shown below.

Over the years 2013 to 2017 inclusive what is the average for Junior membership?

## Question 21

The breakdown of the membership of a tennis club over five years is shown below.

In 2013 what percentage of the membership is Adult Female?

## Question 22

The breakdown of the membership of a tennis club over five years is shown below.

What is the overall percentage increase in membership between 2015 and 2016?

## Question 23

The breakdown of the membership of a tennis club over five years is shown below.

In which year is the ratio Adult Male to Adult Female to Junior ?

2013

2014

2015

2016

2017

## Question 24

The breakdown of the membership of a tennis club over five years is shown below.

In how many years is Adult Male membership less than of the total membership?

0

1

2

3

4

**END OF TEST**

This resource was produced by the **sigma** Network Employability Special Interest Group whose members are:

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