

# Practice Tasks

## Numerical Reasoning



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## How To Use This Document

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### General Information

This document is designed to support you in preparing for your online numerical reasoning assessment.

It provides an overview of the assessment explaining what it measures and how it works.

It also provides 5 practice questions. After these practice questions, solutions and rationale have been provided to help you gain a deeper understanding. We would encourage you to attempt all the practice questions without looking at the solutions first.

### Numerical Reasoning

Aon's Numerical Reasoning assessment measures your aptitude for numerical reasoning. It measures your ability to analyse and understand numerical information and evaluate the truthfulness of statements on the basis of the given data.

In the assessment, you will receive instructions along with some example questions that you can take as many times as you like before you start the actual assessment.

### How Does The Numerical Reasoning Assessment Work?

You are presented with multiple data sheets providing information in a numerical form. You are also presented with a series of statements. Your task is to evaluate these statements based on the information on the data sheets.

The information on the data sheets will not change during the test and each statement relates to only one data sheet. You need to find and refer to that data sheet.

Every statement has three answer options: TRUE, FALSE and CANNOT SAY. There is only one correct answer. You can navigate through the different statements but it is recommended to work on the tasks in the predefined order.

The test is preceded by specific examples to help you understand the system. Before you start the test, make sure you have a pen and paper as well as a calculator to hand.

### Guidance for the Practice Questions

The actual assessment you will take is timed, but you are not expected to answer all the questions – you just need to work quickly and accurately, to try to get as many correct as possible in the time provided. As such, there is no specific time limit in the practice tests. Try to focus and complete them quickly in a single session.


You should write down your answers as you work through, so that you can compare your answers to the solutions at the end.

In the actual assessment there will be several data sheets you will need refer to. During the time limit, you are likely to become familiar with the different sheets and know which are useful when. For the purposes of these practice questions, you have been provided with the data sheet that the statement refers to.

To continue to practice, spend time trying to interpret tables and charts. You may wish to spend more time reviewing the example data provided here and asking yourself what it can tell you, and what it can't tell you.

## Practice Tasks

### Example 1




**COSTS**

Fiscal Year	Year 10	Year 9	Year 8
Entertainment	5,156	4,230	4,250
Research	15,240	8,960	7,256
Marketing	6,000	5,000	4,000
Software	7,230	6,250	5,256
Energy	248	150	170
Travel	260	340	360
<b>Total Costs</b>	<b>34,134</b>	<b>24,930</b>	<b>21,292</b>

All data in thousand dollars



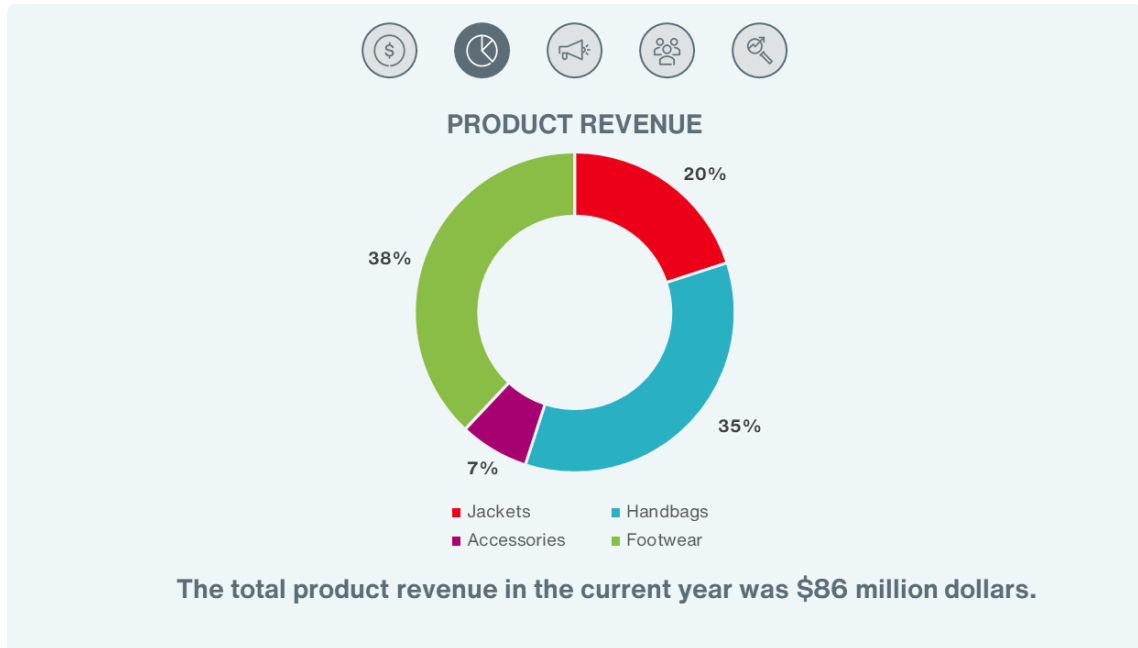
In Fiscal Year 8, research costs amounted to over \$7 million dollars.

TRUE

FALSE

CANNOT SAY

## Example 2




Footwear and Accessories have a combined product revenue of \$32 million dollars.

TRUE

FALSE

CANNOT SAY

## Example 3



**LEAD GENERATION**

Fiscal Year	Year 6	Year 5	Year 4
Social Media	10,005	9,345	8,990
Newsletter	3,500	4,620	5,620
Billboards	2,500	2,450	2,345
Web Site	1,254	1,500	1,367
Leather Fairs	20,000	17,670	16,564
Fashion Shows	10,376	8,345	7,891
Other	1,017	940	821
<b>Total</b>	<b>48,652</b>	<b>44,870</b>	<b>43,598</b>



Leads from Social Media was 6 % higher in fiscal year 6 than in fiscal year 3.

TRUE

FALSE

CANNOT SAY

## Example 4



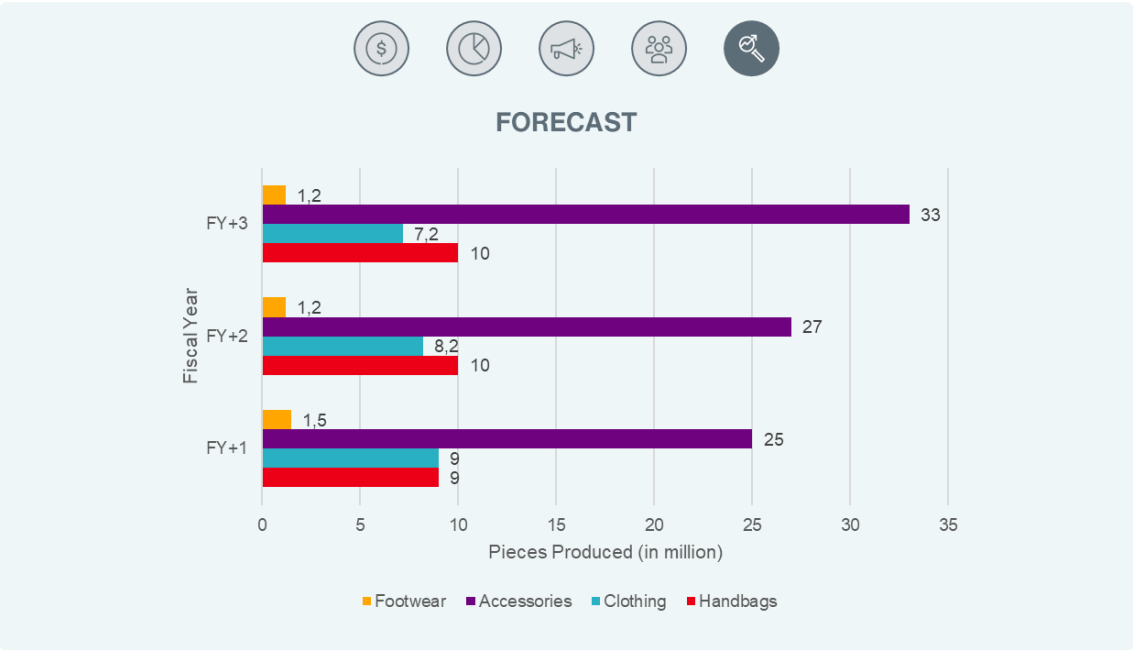
In fiscal year 6 there were 1,500,000 more employees in North America than in fiscal year 5.

TRUE

FALSE

CANNOT SAY

Example 5



The production forecast for Accessories is 2 million pieces more for fiscal year FY+3 compared to fiscal year FY+4.

TRUE

FALSE

CANNOT SAY

## Solutions & Rationale

### Example 1 - Solution







**COSTS**

Fiscal Year	Year 10	Year 9	Year 8
Entertainment	5,156	4,230	4,250
Research	15,240	8,960	7,256
Marketing	6,000	5,000	4,000
Software	7,230	6,250	5,256
Energy	248	150	170
Travel	260	340	360
<b>Total Costs</b>	<b>34,134</b>	<b>24,930</b>	<b>21,292</b>

All data in **thousand dollars**

**Statement:** In Fiscal Year 8, research costs amounted to over \$7 million dollars.

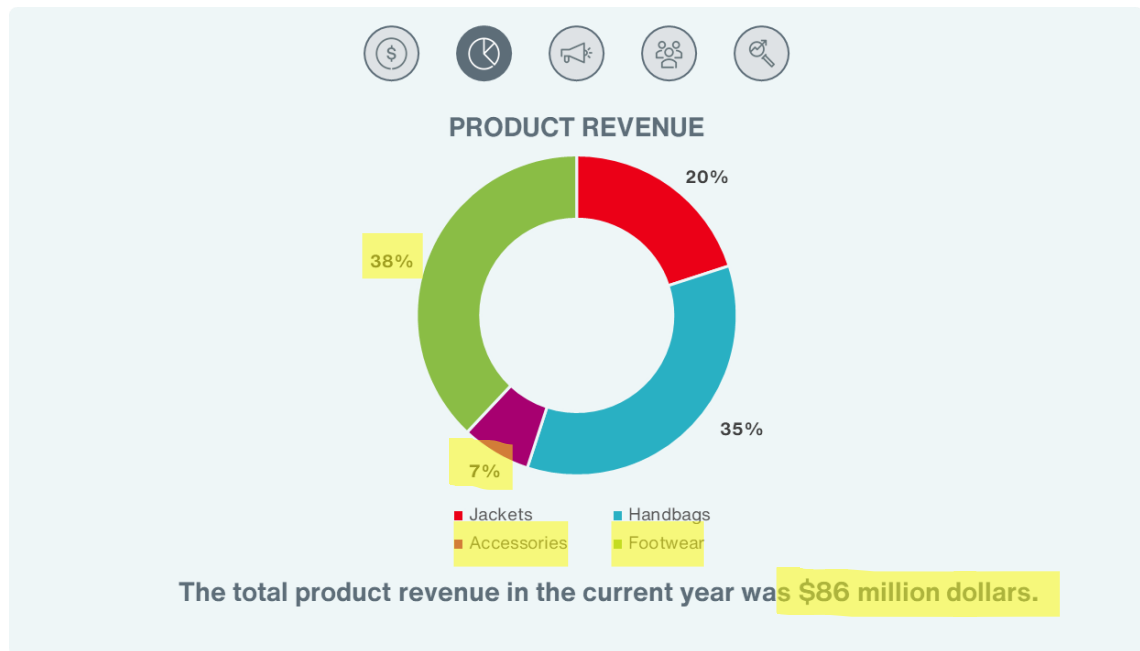
**Answer:** True

**Rationale:** The answer can be found by locating Research and Year 8 in the table. Here you can see that the costs amounted to 7,256.

We can also see that the numbers are provided in thousand US Dollars, therefore you need to multiply the given value with 1,000. The result is 7,2 million, the statement is correct.



## Example 2 - Solution



**Statement:** Footwear and Accessories have a combined product revenue of \$32 million dollars.

**Answer:** False

**Rationale:** You first need to identify the relevant information in the chart – Footwear and Accessories are two separate pieces of the chart.


You can see calculate that these total 45% of Product Revenue (38% + 7%).

Beneath the chart, you can also see the total Product Revenue is \$86 million dollars.

From here, you can calculate the exact amount, which is 45% of \$86 million dollars, which is 38.7.

However, it may be quicker and easier to estimate the value. 45% is almost 50%, which is half the overall figure. 50% of \$86 million is \$43 million dollars. This is quite different from the \$32 million dollars in the statement. As such, this statement is likely to be false.

## Example 3 - Solution



**LEAD GENERATION**

Fiscal Year	Year 6	Year 5	Year 4
Social Media	10,005	9,345	8,990
Newsletter	3,500	4,620	5,620
Billboards	2,500	2,450	2,345
Web Site	1,254	1,500	1,367
Leather Fairs	20,000	17,670	16,564
Fashion Shows	10,376	8,345	7,891
Other	1,017	940	821
<b>Total</b>	<b>48,652</b>	<b>44,870</b>	<b>43,598</b>

**Statement:** Leads from Social Media was 6% higher in fiscal year 6 than in fiscal year 3.

**Answer:** Cannot Say

**Rationale:** The table does not provide data for fiscal year 3 and therefore we cannot say whether the revenue from Accessories was 6% higher in fiscal Year 6 than in fiscal year 3.

Remember, all information can be found on a single data sheet – you do not need to compare data across multiple sheets of information.

## Example 4 - Solution



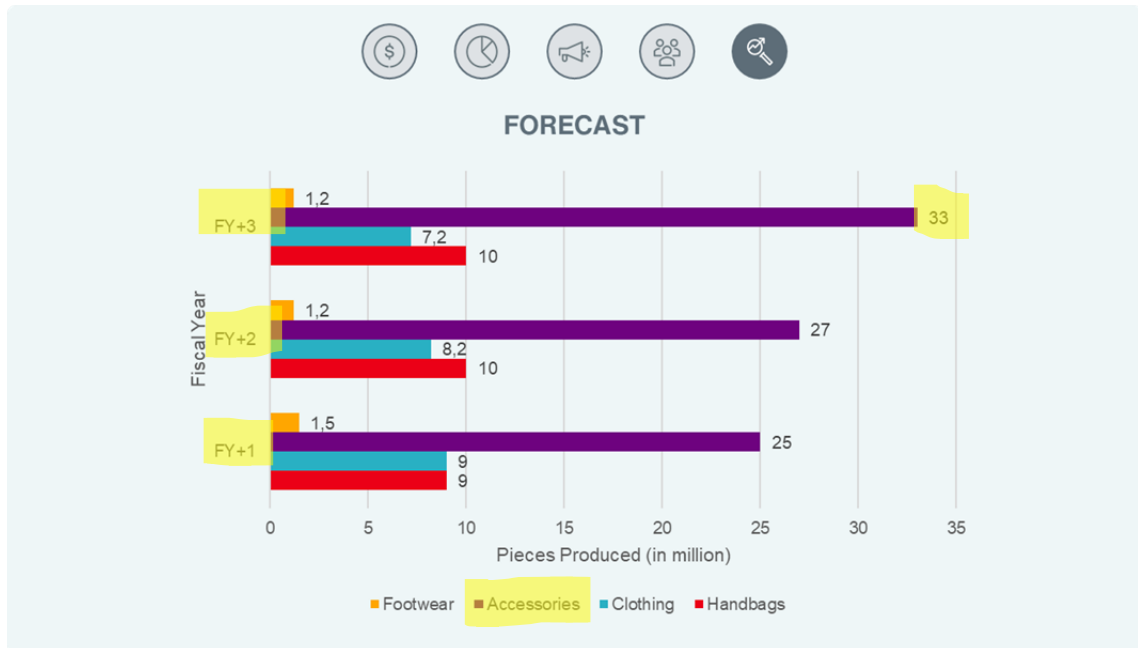
**Statement:** In fiscal year 6 there were 1,500,000 more employees in North America than in fiscal year 5

**Answer:** False

**Rationale:** Once we have located North America in the chart, we need to calculate the difference in employees between fiscal year 5 and fiscal year 6.

The correct calculation is  $3850 - 2300 = 1550$ . The key on the side of the chart shows that this is in thousands, so this represents 1,550,000 more employees. This means the statement is false. The figures are close, but the statement was not asking for an approximation.

## Example 5 - Solution



**Statement:** The production forecast for Accessories and Clothing is 2 million pieces more for fiscal year FY+3 compared to fiscal year FY+4.

**Answer:** Cannot Say

**Rationale:** We can see that there is information for Accessories in FY+3, 33 million pieces. However, there is no information for FY+4. As such, we cannot say what the increase would be.