THIRD SPACE LEARNING

GCSE Exam Questions

Two Way Tables | Statistics

GCSE Exam Questions: Two way tables

1) Complete the table:

	Blue Eyes	Brown Eyes	Green Eyes	Total
Class 1	4		7	
Class 2				31
Total	16		18	63

(3 marks)

2) **(a)** There are 80 customers in a restaurant.

The restaurant serves pasta or pizza.

There are 55 adults and the rest are children.

38 customers choose pizza.

18 children choose pasta.

Complete the two way table:

	Adult	Child	Total
Pasta			
Pizza			
Total			

(3)

(b) A customer is selected at random.

What is the probability that the customer selected is a child who chose pizza?

(2)

(5 marks)

GCSE Exam Questions: Two Way Tables

3) **(a)** There are 180 passengers on a flight.

There are 120 adults and the rest are children.

40 passengers were First class.

30 of the adults had a Business ticket.

38 of the children had an Economy ticket and 3 had a First class ticket.

Complete the two way table:

	Adult	Child	Total
First			
Business			
Economy			
Total			

(3)

(b) How many adults had a First class ticket?

(1)

(c) A passenger is selected at random.

What is the probability that they are an adult travelling with an Economy ticket?

(2)

(6 marks)

GCSE Exam Questions: Two Way Tables Answers

<table>
<tr><th></th><th>Question</th><th>Answer</th><th>Marks</th></tr>
<tr><td>1)</td><td>Complete the table:
<table><tr><th></th><th>Blue Eyes</th><th>Brown Eyes</th><th>Green Eyes</th><th>Total</th></tr><tr><td>Class 1</td><td>4</td><td></td><td>7</td><td></td></tr><tr><td>Class 2</td><td></td><td></td><td></td><td>31</td></tr><tr><td>Total</td><td>16</td><td></td><td>18</td><td>63</td></tr></table></td><td><table><tr><th></th><th>Blue Eyes</th><th>Brown Eyes</th><th>Green Eyes</th><th>Total</th></tr><tr><td>Class 1</td><td>(4)</td><td>21</td><td>(7)</td><td>32</td></tr><tr><td>Class 2</td><td>12</td><td>8</td><td>11</td><td>(31)</td></tr><tr><td>Total</td><td>(16)</td><td>29</td><td>(18)</td><td>(63)</td></tr></table>for at least 2 correct numbers
for at least 4 correct numbers
for fully correct table</td><td>(1)
(1)
(1)</td></tr>
<tr><td>2) (a)</td><td>There are 80 customers in a restaurant.

The restaurant serves pasta or pizza.

There are 55 adults and the rest are children.

38 customers choose pizza.

18 children choose pasta.

Complete the two way table:
<table><tr><th></th><th>Adult</th><th>Child</th><th>Total</th></tr><tr><td>Pasta</td><td></td><td></td><td></td></tr><tr><td>Pizza</td><td></td><td></td><td></td></tr><tr><td>Total</td><td></td><td></td><td></td></tr></table></td><td><table><tr><th></th><th>Adult</th><th>Child</th><th>Total</th></tr><tr><td>Pasta</td><td></td><td>18</td><td></td></tr><tr><td>Pizza</td><td></td><td></td><td>38</td></tr><tr><td>Total</td><td>55</td><td></td><td>80</td></tr></table><table><tr><th></th><th>Adult</th><th>Child</th><th>Total</th></tr><tr><td>Pasta</td><td>24</td><td>18</td><td>42</td></tr><tr><td>Pizza</td><td>31</td><td>7</td><td>38</td></tr><tr><td>Total</td><td>55</td><td>25</td><td>80</td></tr></table>for between 5 and 8 entries correct
for fully correct table</td><td>(1)

(1)
(1)</td></tr>
<tr><td>(b)</td><td>A customer is selected at random.
What is the probability that the customer selected is a child who chose pizza?</td><td>7 or 80 seen
$\frac{7}{80}$</td><td>(1)
(1)</td></tr>
</table>

GCSE Exam Questions: Two Way Tables Answers

<table>
<tr><th></th><th>Question</th><th>Answer</th><th>Marks</th></tr>
<tr><td>3) (a)</td><td>There are 180 passengers on a flight.

There are 120 adults and the rest are children.

40 passengers were First class.

30 of the adults had a Business ticket.

38 of the children had an Economy ticket and 3 had a First class ticket.

Complete the two way table:

<table><tr><th></th><th>Adult</th><th>Child</th><th>Total</th></tr><tr><td>First</td><td></td><td></td><td></td></tr><tr><td>Business</td><td></td><td></td><td></td></tr><tr><td>Economy</td><td></td><td></td><td></td></tr><tr><td>Total</td><td></td><td></td><td></td></tr></table></td><td>(a)
<table><tr><th></th><th>Adult</th><th>Child</th><th>Total</th></tr><tr><td>First</td><td></td><td>3</td><td>40</td></tr><tr><td>Business</td><td>30</td><td></td><td></td></tr><tr><td>Economy</td><td></td><td>38</td><td></td></tr><tr><td>Total</td><td>120</td><td></td><td>180</td></tr></table>
<table><tr><th></th><th>Adult</th><th>Child</th><th>Total</th></tr><tr><td>First</td><td>37</td><td>3</td><td>40</td></tr><tr><td>Business</td><td>30</td><td>19</td><td>49</td></tr><tr><td>Economy</td><td>53</td><td>38</td><td>91</td></tr><tr><td>Total</td><td>120</td><td>60</td><td>180</td></tr></table>
for between 7 and 11 entries correct
for fully correct table</td><td>(1)

(1)
(1)</td></tr>
<tr><td>(b)</td><td>How many adults had a First class ticket?</td><td>(b) 37</td><td>(1)</td></tr>
<tr><td>(c)</td><td>A passenger is selected at random. What is the probability that they are an adult travelling with an Economy ticket?</td><td>(c) 53 or 180 seen
$\frac{53}{180}$</td><td>(1)

(1)</td></tr>
</table>

Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning GCSE maths revision pages.

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