

Two way tables - Worksheet

Skill

Group A - Row and column totals

Work out the row and column totals:

1)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 5 | 3 | |
| Group 2 | 2 | 6 | |
| Total | | | |

2)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 7 | 3 | |
| Group 2 | 2 | 6 | |
| Total | | | |

3)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 9 | 3 | |
| Group 2 | 2 | 6 | |
| Total | | | |

4)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 4 | 7 | |
| Group 2 | 3 | 5 | |
| Total | | | |

5)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 6 | 7 | |
| Group 2 | 3 | 5 | |
| Total | | | |

6)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 9 | 7 | |
| Group 2 | 3 | 5 | |
| Total | | | |

7)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | 8 | |
| Group 2 | 6 | 9 | |
| Total | | | |

8)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 5 | 8 | |
| Group 2 | 6 | 9 | |
| Total | | | |

9)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 8 | 8 | |
| Group 2 | 6 | 9 | |
| Total | | | |

10)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 5 | 10 | |
| Group 2 | 7 | 12 | |
| Total | | | |

Two way tables - Worksheet

11)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 8 | 10 | |
| Group 2 | 7 | 12 | |
| Total | | | |

12)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 10 | 10 | |
| Group 2 | 7 | 12 | |
| Total | | | |

Group B - Missing values

Work out the missing values:

1)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | | 7 |
| Group 2 | | | |
| Total | 4 | | 10 |

2)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | | 6 |
| Group 2 | | | |
| Total | 4 | | 10 |

3)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | | 6 |
| Group 2 | | | |
| Total | 5 | | 10 |

4)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 4 | | 8 |
| Group 2 | | | |
| Total | 7 | | 20 |

5)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 4 | | 8 |
| Group 2 | | | |
| Total | 10 | | 20 |

6)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 4 | | 12 |
| Group 2 | | | |
| Total | 10 | | 20 |

7)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | |
| Group 2 | | 10 | 14 |
| Total | 15 | | 30 |

8)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | |
| Group 2 | | 10 | 16 |
| Total | 15 | | 30 |

Two way tables - Worksheet

9)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | |
| Group 2 | | 10 | 16 |
| Total | 17 | | 30 |

10)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | 8 | |
| Group 2 | | | 22 |
| Total | | 20 | 40 |

11)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | 9 | |
| Group 2 | | | 22 |
| Total | | 20 | 40 |

12)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | 9 | |
| Group 2 | | | 22 |
| Total | | 24 | 40 |

Group C - 2 by 3 table

Work out the missing values:

1)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | 5 | |
| Group 2 | 3 | 4 | |
| Group 3 | 6 | 1 | |
| Total | | | |

2)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 7 | 5 | |
| Group 2 | 3 | 4 | |
| Group 3 | 6 | 2 | |
| Total | | | |

3)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 7 | 5 | |
| Group 2 | 9 | 3 | |
| Group 3 | 6 | 2 | |
| Total | | | |

4)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | 5 | |
| Group 2 | | | 10 |
| Group 3 | 4 | | 10 |
| Total | 10 | | 30 |

5)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | 5 | |
| Group 2 | | | 10 |
| Group 3 | 4 | | 10 |
| Total | 10 | | 30 |

6)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | 7 | |
| Group 2 | | | 10 |
| Group 3 | 6 | | 10 |
| Total | 10 | | 30 |

Two way tables - Worksheet

7)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | 15 |
| Group 2 | | 11 | |
| Group 3 | 12 | | 20 |
| Total | | 25 | 50 |

8)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | 15 |
| Group 2 | | 11 | |
| Group 3 | 14 | | 20 |
| Total | | 25 | 50 |

9)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | 15 |
| Group 2 | | 11 | |
| Group 3 | 14 | | 20 |
| Total | | 20 | 50 |

10)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | 25 |
| Group 2 | 18 | | 30 |
| Group 3 | | 21 | |
| Total | 45 | | 80 |

11)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | 25 |
| Group 2 | 18 | | 30 |
| Group 3 | | 21 | |
| Total | 45 | | 90 |

12)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | 25 |
| Group 2 | 18 | | 30 |
| Group 3 | | 21 | |
| Total | 45 | | 100 |

Two way tables - Worksheet

Applied

- 1) (a) There are 60 students in 2 classes. There are 31 students in Class 1.
The students are asked to choose between food and textiles.
44 students choose food.
17 students in Class 2 choose food.

Complete the two way table:

| | Textiles | Food | Total |
|---------|----------|------|-------|
| Class 1 | | | |
| Class 2 | | | |
| Total | | | |

- (b) How many students in Class 1 chose textiles?

- 2) (a) There are 80 people. There are 35 children and the others are adults.
58 of the people are right-handed.
6 of the adults are left-handed.

Complete the two way table:

| | Adult | Child | Total |
|-------|-------|-------|-------|
| Right | | | |
| Left | | | |
| Total | | | |

- (b) How many children are right-handed?

Two way tables - Worksheet

- 3) (a) At a campsite there are people with different nationalities.
People are either staying in a caravan or a tent.

Complete the two way table:

| | Caravan | Tent | Total |
|---------|---------|------|-------|
| British | | | 70 |
| French | 6 | | 20 |
| German | | 23 | |
| Total | 45 | | 120 |

- (b) How many British people are staying in a tent?
- (c) A person is selected at random. What is the probability that they are German and are staying in a caravan?

- 4) (a) 150 test papers were taken in Biology, Chemistry and Physics.
The test papers are marked as pass or fail.

Complete the two way table:

| | Pass | Fail | Total |
|-----------|------|------|-------|
| Biology | 42 | | 53 |
| Chemistry | | | |
| Physics | | 18 | 47 |
| Total | 110 | | 150 |

- (b) How many test papers passed Physics?
- (c) A paper is selected at random. What is the probability that the paper selected in a Biology paper fails?

Two way tables - Exam Questions

- 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)

Two way tables - Exam Questions

- 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)

Two way tables - Answers

| | Question | Answer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|--------|--------|--------|-------|---------|---|---|--|---------|---|---|--|-------|--|--|--|---|--|--------|--------|-------|---------|---|---|---|---------|---|---|---|-------|---|---|----|
| | Skill Questions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group A | Work out the row and column totals: 1) | 1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><th></th><th>Type A</th><th>Type B</th><th>Total</th></tr><tr><td>Group 1</td><td>5</td><td>3</td><td></td></tr><tr><td>Group 2</td><td>2</td><td>6</td><td></td></tr><tr><td>Total</td><td></td><td></td><td></td></tr></table> | | Type A | Type B | Total | Group 1 | 5 | 3 | | Group 2 | 2 | 6 | | Total | | | | <table><tr><th></th><th>Type A</th><th>Type B</th><th>Total</th></tr><tr><td>Group 1</td><td>5</td><td>3</td><td>8</td></tr><tr><td>Group 2</td><td>2</td><td>6</td><td>8</td></tr><tr><td>Total</td><td>7</td><td>9</td><td>16</td></tr></table> | | Type A | Type B | Total | Group 1 | 5 | 3 | 8 | Group 2 | 2 | 6 | 8 | Total | 7 | 9 | 16 |
| | | Type A | Type B | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Group 1 | 5 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Group 2 | 2 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Type A | Type B | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group 1 | 5 | 3 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group 2 | 2 | 6 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 7 | 9 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2) | <table><tr><th></th><th>Type A</th><th>Type B</th><th>Total</th></tr><tr><td>Group 1</td><td>7</td><td>3</td><td></td></tr><tr><td>Group 2</td><td>2</td><td>6</td><td></td></tr><tr><td>Total</td><td></td><td></td><td></td></tr></table> | | Type A | Type B | Total | Group 1 | 7 | 3 | | Group 2 | 2 | 6 | | Total | | | | 2) | | | | | | | | | | | | | | | | |
| | Type A | Type B | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group 1 | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group 2 | 2 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3) | <table><tr><th></th><th>Type A</th><th>Type B</th><th>Total</th></tr><tr><td>Group 1</td><td>9</td><td>3</td><td></td></tr><tr><td>Group 2</td><td>2</td><td>6</td><td></td></tr><tr><td>Total</td><td></td><td></td><td></td></tr></table> | | Type A | Type B | Total | Group 1 | 9 | 3 | | Group 2 | 2 | 6 | | Total | | | | 3) | | | | | | | | | | | | | | | | |
| | Type A | Type B | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group 1 | 9 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group 2 | 2 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4) | <table><tr><th></th><th>Type A</th><th>Type B</th><th>Total</th></tr><tr><td>Group 1</td><td>4</td><td>7</td><td></td></tr><tr><td>Group 2</td><td>3</td><td>5</td><td></td></tr><tr><td>Total</td><td></td><td></td><td></td></tr></table> | | Type A | Type B | Total | Group 1 | 4 | 7 | | Group 2 | 3 | 5 | | Total | | | | 4) | | | | | | | | | | | | | | | | |
| | Type A | Type B | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group 1 | 4 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group 2 | 3 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5) | <table><tr><th></th><th>Type A</th><th>Type B</th><th>Total</th></tr><tr><td>Group 1</td><td>6</td><td>7</td><td></td></tr><tr><td>Group 2</td><td>3</td><td>5</td><td></td></tr><tr><td>Total</td><td></td><td></td><td></td></tr></table> | | Type A | Type B | Total | Group 1 | 6 | 7 | | Group 2 | 3 | 5 | | Total | | | | 5) | | | | | | | | | | | | | | | | |
| | Type A | Type B | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group 1 | 6 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group 2 | 3 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6) | <table><tr><th></th><th>Type A</th><th>Type B</th><th>Total</th></tr><tr><td>Group 1</td><td>9</td><td>7</td><td></td></tr><tr><td>Group 2</td><td>3</td><td>5</td><td></td></tr><tr><td>Total</td><td></td><td></td><td></td></tr></table> | | Type A | Type B | Total | Group 1 | 9 | 7 | | Group 2 | 3 | 5 | | Total | | | | 6) | | | | | | | | | | | | | | | | |
| | Type A | Type B | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group 1 | 9 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group 2 | 3 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Two way tables - Answers

Group A
contd

7)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | 8 | |
| Group 2 | 6 | 9 | |
| Total | | | |

8)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 5 | 8 | |
| Group 2 | 6 | 9 | |
| Total | | | |

9)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 8 | 8 | |
| Group 2 | 6 | 9 | |
| Total | | | |

10)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 5 | 10 | |
| Group 2 | 7 | 12 | |
| Total | | | |

11)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 8 | 10 | |
| Group 2 | 7 | 12 | |
| Total | | | |

12)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 10 | 10 | |
| Group 2 | 7 | 12 | |
| Total | | | |

7)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | 8 | 10 |
| Group 2 | 6 | 9 | 15 |
| Total | 8 | 17 | 25 |

8)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 5 | 8 | 13 |
| Group 2 | 6 | 9 | 15 |
| Total | 11 | 17 | 28 |

9)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 8 | 8 | 16 |
| Group 2 | 6 | 9 | 15 |
| Total | 14 | 17 | 31 |

10)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 5 | 10 | 15 |
| Group 2 | 7 | 12 | 19 |
| Total | 12 | 22 | 34 |

11)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 8 | 10 | 18 |
| Group 2 | 7 | 12 | 19 |
| Total | 15 | 22 | 37 |

12)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 10 | 10 | 20 |
| Group 2 | 7 | 12 | 19 |
| Total | 17 | 22 | 39 |

Two way tables - Answers

Group B

Work out the missing values:

1)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | | 7 |
| Group 2 | | | |
| Total | 4 | | 10 |

2)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | | 6 |
| Group 2 | | | |
| Total | 4 | | 10 |

3)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | | 6 |
| Group 2 | | | |
| Total | 5 | | 10 |

4)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 4 | | 8 |
| Group 2 | | | |
| Total | 7 | | 20 |

5)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 4 | | 8 |
| Group 2 | | | |
| Total | 10 | | 20 |

6)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 4 | | 12 |
| Group 2 | | | |
| Total | 10 | | 20 |

1)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | 5 | 7 |
| Group 2 | 2 | 1 | 3 |
| Total | 4 | 6 | 10 |

2)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | 4 | 6 |
| Group 2 | 2 | 2 | 4 |
| Total | 4 | 6 | 10 |

3)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | 4 | 6 |
| Group 2 | 3 | 1 | 4 |
| Total | 5 | 5 | 10 |

4)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 4 | 4 | 8 |
| Group 2 | 3 | 9 | 12 |
| Total | 7 | 13 | 20 |

5)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 4 | 4 | 8 |
| Group 2 | 6 | 6 | 12 |
| Total | 10 | 10 | 20 |

6)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 4 | 8 | 12 |
| Group 2 | 6 | 2 | 8 |
| Total | 10 | 10 | 20 |

Two way tables - Answers

Group B
contd

7)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | |
| Group 2 | | 10 | 14 |
| Total | 15 | | 30 |

8)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | |
| Group 2 | | 10 | 16 |
| Total | 15 | | 30 |

9)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | |
| Group 2 | | 10 | 16 |
| Total | 17 | | 30 |

10)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | 8 | |
| Group 2 | | | 22 |
| Total | | 20 | 40 |

11)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | 9 | |
| Group 2 | | | 22 |
| Total | | 20 | 40 |

12)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | 9 | |
| Group 2 | | | 22 |
| Total | | 24 | 40 |

7)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 11 | 5 | 16 |
| Group 2 | 4 | 10 | 14 |
| Total | 15 | 15 | 30 |

8)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 9 | 5 | 14 |
| Group 2 | 6 | 10 | 16 |
| Total | 15 | 15 | 30 |

9)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 11 | 3 | 14 |
| Group 2 | 6 | 10 | 16 |
| Total | 17 | 13 | 30 |

10)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 10 | 8 | 18 |
| Group 2 | 10 | 12 | 22 |
| Total | 20 | 20 | 40 |

11)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 9 | 9 | 18 |
| Group 2 | 11 | 11 | 22 |
| Total | 20 | 20 | 40 |

12)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 9 | 9 | 18 |
| Group 2 | 7 | 15 | 22 |
| Total | 16 | 24 | 40 |

Two way tables - Answers

Group C

Work out the missing values:

1)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | 5 | |
| Group 2 | 3 | 4 | |
| Group 3 | 6 | 1 | |
| Total | | | |

2)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 7 | 5 | |
| Group 2 | 3 | 4 | |
| Group 3 | 6 | 2 | |
| Total | | | |

3)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 7 | 5 | |
| Group 2 | 9 | 3 | |
| Group 3 | 6 | 2 | |
| Total | | | |

4)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | 5 | |
| Group 2 | | | 10 |
| Group 3 | 4 | | 10 |
| Total | 10 | | 30 |

5)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | 5 | |
| Group 2 | | | 10 |
| Group 3 | 4 | | 10 |
| Total | 10 | | 30 |

1)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 2 | 5 | 7 |
| Group 2 | 3 | 4 | 7 |
| Group 3 | 6 | 1 | 7 |
| Total | 11 | 10 | 21 |

2)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 7 | 5 | 12 |
| Group 2 | 3 | 4 | 7 |
| Group 3 | 6 | 2 | 8 |
| Total | 16 | 11 | 27 |

3)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 7 | 5 | 12 |
| Group 2 | 9 | 3 | 12 |
| Group 3 | 6 | 2 | 8 |
| Total | 22 | 10 | 32 |

4)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 5 | 5 | 10 |
| Group 2 | 2 | 8 | 10 |
| Group 3 | 3 | 7 | 10 |
| Total | 10 | 20 | 30 |

5)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 5 | 5 | 10 |
| Group 2 | 1 | 9 | 10 |
| Group 3 | 4 | 6 | 10 |
| Total | 10 | 20 | 30 |

Two way tables - Answers

Group C
contd

6)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | 7 | |
| Group 2 | | | 10 |
| Group 3 | 6 | | 10 |
| Total | 10 | | 30 |

7)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | 15 |
| Group 2 | | 11 | |
| Group 3 | 12 | | 20 |
| Total | | 25 | 50 |

8)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | 15 |
| Group 2 | | 11 | |
| Group 3 | 14 | | 20 |
| Total | | 25 | 50 |

9)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | 15 |
| Group 2 | | 11 | |
| Group 3 | 14 | | 20 |
| Total | | 20 | 50 |

10)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | 25 |
| Group 2 | 18 | | 30 |
| Group 3 | | 21 | |
| Total | 45 | | 80 |

6)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 3 | 7 | 10 |
| Group 2 | 1 | 9 | 10 |
| Group 3 | 6 | 4 | 10 |
| Total | 10 | 20 | 30 |

7)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 9 | 6 | 15 |
| Group 2 | 4 | 11 | 15 |
| Group 3 | 12 | 8 | 20 |
| Total | 25 | 25 | 50 |

8)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 7 | 8 | 15 |
| Group 2 | 4 | 11 | 15 |
| Group 3 | 14 | 6 | 20 |
| Total | 25 | 25 | 50 |

9)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 12 | 3 | 15 |
| Group 2 | 4 | 11 | 15 |
| Group 3 | 14 | 6 | 20 |
| Total | 30 | 20 | 50 |

10)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 23 | 2 | 25 |
| Group 2 | 18 | 12 | 30 |
| Group 3 | 4 | 21 | 25 |
| Total | 45 | 35 | 80 |

Two way tables - Answers

Group C

11)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | 25 |
| Group 2 | 18 | | 30 |
| Group 3 | | 21 | |
| Total | 45 | | 90 |

12)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | | | 25 |
| Group 2 | 18 | | 30 |
| Group 3 | | 21 | |
| Total | 45 | | 100 |

11)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 13 | 12 | 25 |
| Group 2 | 18 | 12 | 30 |
| Group 3 | 14 | 21 | 35 |
| Total | 45 | 45 | 90 |

12)

| | Type A | Type B | Total |
|---------|--------|--------|-------|
| Group 1 | 3 | 22 | 25 |
| Group 2 | 18 | 12 | 30 |
| Group 3 | 24 | 21 | 45 |
| Total | 45 | 55 | 100 |

Two way tables - Answers

| | Question | Answer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|--|------------------------------|----------|-------|-------|---------|--|--|--|---------|--|--|--|-------|--|--|--|---|--|----------|-------|-------|---------|----|----|----|---------|----|----|----|-------|----|----|----|
| | Applied Questions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1) | <p>a) There are 60 students in 2 classes. There are 31 students in Class 1. The students are asked to choose between food and textiles. 44 students choose food. 17 students in Class 2 choose food.</p> <p>Complete the two way table:</p> <table><tr><th></th><th>Textiles</th><th>Food</th><th>Total</th></tr><tr><th>Class 1</th><td></td><td></td><td></td></tr><tr><th>Class 2</th><td></td><td></td><td></td></tr><tr><th>Total</th><td></td><td></td><td></td></tr></table> | | Textiles | Food | Total | Class 1 | | | | Class 2 | | | | Total | | | | <p>a)</p> <table><tr><th></th><th>Textiles</th><th>Food</th><th>Total</th></tr><tr><th>Class 1</th><td>4</td><td>27</td><td>31</td></tr><tr><th>Class 2</th><td>12</td><td>17</td><td>29</td></tr><tr><th>Total</th><td>16</td><td>44</td><td>60</td></tr></table> | | Textiles | Food | Total | Class 1 | 4 | 27 | 31 | Class 2 | 12 | 17 | 29 | Total | 16 | 44 | 60 |
| | Textiles | Food | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Class 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Class 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Textiles | Food | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Class 1 | 4 | 27 | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Class 2 | 12 | 17 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 16 | 44 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>b) How many students in Class 1 chose textiles?</p> | <p>b) 4 students</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2) | <p>a) There are 80 people. There are 35 children and the others are adults. 65 of the people are right-handed. 9 of the adults are left-handed. Complete the two way table:</p> <table><tr><th></th><th>Adult</th><th>Child</th><th>Total</th></tr><tr><th>Right</th><td></td><td></td><td></td></tr><tr><th>Left</th><td></td><td></td><td></td></tr><tr><th>Total</th><td></td><td></td><td></td></tr></table> | | Adult | Child | Total | Right | | | | Left | | | | Total | | | | <p>a)</p> <table><tr><th></th><th>Adult</th><th>Child</th><th>Total</th></tr><tr><th>Right</th><td>36</td><td>29</td><td>65</td></tr><tr><th>Left</th><td>9</td><td>6</td><td>15</td></tr><tr><th>Total</th><td>45</td><td>35</td><td>80</td></tr></table> | | Adult | Child | Total | Right | 36 | 29 | 65 | Left | 9 | 6 | 15 | Total | 45 | 35 | 80 |
| | Adult | Child | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Right | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Left | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Adult | Child | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Right | 36 | 29 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Left | 9 | 6 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 45 | 35 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>b) How many children are right-handed?</p> | <p>b) 29 children</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Two way tables - Answers

3)

a)

At a campsite there are people with different nationalities.

People are either staying in a caravan or a tent.

Complete the two way table:

| | | | |
|---------|---------|------|-------|
| | Caravan | Tent | Total |
| British | | | 70 |
| French | 6 | | 20 |
| German | | 23 | |
| Total | 45 | | 120 |

b)

How many British people are staying in a tent?

c)

A person is selected at random. What is the probability that they are German and are staying in a caravan?

a)

| | | | |
|---------|---------|------|-------|
| | Caravan | Tent | Total |
| British | 32 | 38 | 70 |
| French | 6 | 14 | 20 |
| German | 7 | 23 | 30 |
| Total | 45 | 75 | 120 |

b)

38

c)

$\frac{7}{120}$

4)

a)

150 test papers were taken in Biology, Chemistry and Physics.
The test papers are marked as pass or fail.

Complete the two way table:

| | | | |
|-----------|------|------|-------|
| | Pass | Fail | Total |
| Biology | 42 | | 53 |
| Chemistry | | | |
| Physics | | 18 | 47 |
| Total | 110 | | 150 |

b)

How many test papers passed Physics?

c)

A paper is selected at random. What is the probability that the paper selected in a Biology paper fails?

a)

| | | | |
|-----------|------|------|-------|
| | Pass | Fail | Total |
| Biology | 42 | 11 | 53 |
| Chemistry | 39 | 11 | 50 |
| Physics | 29 | 18 | 47 |
| Total | 110 | 40 | 150 |

b)

29

c)

$\frac{11}{150}$

Two way tables - Mark Scheme

| | Question | Answer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|--------------------------------------|------------|------------|------------|-------|---------|---|--|-------|--|---------|--|-------|--|----|-------|--|--|-------|-------|--|-------|-----------|------------|------------|-------|---------|-----|----|-------|----|---------|----|---|-------|-------|-------|-------|----|------|------|-------------------|----|---|----|-------|----|----|----|------------|
| | Exam Questions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1) | <p>Complete the table:</p> <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> | | Blue Eyes | Brown Eyes | Green Eyes | Total | Class 1 | 4 | | 7 | | Class 2 | | | | 31 | Total | 16 | | 18 | 63 | <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> <p>for at least 2 correct numbers for at least 4 correct numbers for fully correct table</p> | | Blue Eyes | Brown Eyes | Green Eyes | Total | Class 1 | (4) | 21 | (7) | 32 | Class 2 | 12 | 8 | 11 | (31) | Total | (16) | 29 | (18) | (63) | (1) (1) (1) | | | | | | | | |
| | Blue Eyes | Brown Eyes | Green Eyes | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Class 1 | 4 | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Class 2 | | | | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 16 | | 18 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Blue Eyes | Brown Eyes | Green Eyes | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Class 1 | (4) | 21 | (7) | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Class 2 | 12 | 8 | 11 | (31) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | (16) | 29 | (18) | (63) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2) (a) | <p>There are 80 customers in a restaurant.</p> <p>The restaurant serves pasta or pizza.</p> <p>There are 55 adults and the rest are children.</p> <p>38 customers choose pizza.</p> <p>18 children choose pasta.</p> <p>Complete the two way table:</p> <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> | | Adult | Child | Total | Pasta | | | | Pizza | | | | Total | | | | <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> <p>for between 5 and 8 entries correct for fully correct table</p> | | Adult | Child | Total | Pasta | | 18 | | Pizza | | | 38 | Total | 55 | | 80 | | Adult | Child | Total | Pasta | 24 | 18 | 42 | Pizza | 31 | 7 | 38 | Total | 55 | 25 | 80 | (1) (1) |
| | Adult | Child | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pasta | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pizza | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Adult | Child | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pasta | | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pizza | | | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 55 | | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Adult | Child | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pasta | 24 | 18 | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pizza | 31 | 7 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 55 | 25 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (b) | <p>A customer is selected at random.</p> <p>What is the probability that the customer selected is a child who chose pizza?</p> | <p>7 or 150 seen</p> $\frac{7}{150}$ | (1) (1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Two way tables - Mark Scheme

| 3) (a) | <p>There are 180 passengers on a flight.</p> <p>There are 120 adults and the rest are children.</p> <p>40 passengers were First class.</p> <p>30 of the adults had a Business ticket.</p> <p>38 of the children had an Economy ticket and 3 had a First class ticket.</p> <p>Complete the two way table:</p> <table border="1" data-bbox="256 938 735 1128"> <thead> <tr> <th></th><th>Adult</th><th>Child</th><th>Total</th></tr> </thead> <tbody> <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> </tbody> </table> | | Adult | Child | Total | First | | | | Business | | | | Economy | | | | Total | | | | (a) <table border="1" data-bbox="820 315 1401 528"> <thead> <tr> <th></th><th>Adult</th><th>Child</th><th>Total</th></tr> </thead> <tbody> <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> </tbody> </table> <table border="1" data-bbox="820 546 1401 763"> <thead> <tr> <th></th><th>Adult</th><th>Child</th><th>Total</th></tr> </thead> <tbody> <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> </tbody> </table> <p>for between 7 and 11 entries correct for fully correct table</p> | | Adult | Child | Total | First | | 3 | 40 | Business | 30 | | | Economy | | 38 | | Total | 120 | | 180 | | Adult | Child | Total | First | 37 | 3 | 40 | Business | 30 | 19 | 49 | Economy | 53 | 38 | 91 | Total | 120 | 60 | 180 | <p>(1)</p> <p>(1)</p> <p>(1)</p> |
|---------------|--|--|-------------------------------------|-------|-------|-------|--|--|--|----------|--|--|--|---------|--|--|--|-------|--|--|--|---|--|-------|-------|-------|-------|--|---|----|----------|----|--|--|---------|--|----|--|-------|-----|--|-----|--|-------|-------|-------|-------|----|---|----|----------|----|----|----|---------|----|----|----|-------|-----|----|-----|---|
| | Adult | Child | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| First | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Business | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Economy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Adult | Child | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| First | | 3 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Business | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Economy | | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 120 | | 180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Adult | Child | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| First | 37 | 3 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Business | 30 | 19 | 49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Economy | 53 | 38 | 91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 120 | 60 | 180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (b) | <p>How many adults had a First class ticket?</p> | <p>(b) 37</p> | <p>(1)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (c) | <p>A passenger is selected at random. What is the probability that they are an adult travelling with an Economy ticket?</p> | <p>(c) 53 or 180 seen $\frac{53}{180}$</p> | <p>(1)</p> <p>(1)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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