

Frequency Tables-Questions

Key Stage 3: 2003 Paper 2 Level 3-5

1.

7. Mark did a survey.

He asked pupils in his school:

‘Do you like the colour of the school uniform?’

The table shows his results.

| | Yes | No | Don't know |
|--------|-----|----|------------|
| Year 7 | 35 | 17 | 2 |
| Year 8 | 20 | 24 | 5 |
| Year 9 | 19 | 17 | 6 |

(a) How many pupils from **year 7** took part in the survey?



.....

1 mark

(b) Altogether, more pupils said ‘**Yes**’ than said ‘**No**’.

How many more?



.....

1 mark

(c) Mark asked the same question to **40 pupils** in **year 11**

25% said 'Yes'. **50%** said 'No'. The rest said 'Don't know'.

Complete the table to show how many pupils from year 11 gave each answer.

| | Yes | No | Don't know |
|---------|-----|----|------------|
| Year 11 | | | |

2 marks

(d) Anna does a different survey with pupils in year 9

She wants to know if more boys than girls have pets.

She asks:

'Do you have a pet?'

What labels should Anna use on her results table?

Fill in the missing labels.

| |  |  |
|---|---|---|
|  | | |
|  | | |

1 mark

9. The table shows how much it costs to go to a cinema.

| | Before 6pm | After 6pm |
|--------------------------------|------------|-----------|
| Adult | £3.20 | £4.90 |
| Child (14 or under) | £2.50 | £3.50 |
| Senior Citizen (60 or over) | £2.95 | £4.90 |

Mrs Jones (aged 35), her daughter (aged 12), her son (aged 10) and a friend (aged 65) want to go to the cinema.

They are not sure whether to go before 6pm or after 6pm.

How much will they save if they go **before** 6pm?

Show your working.



£

3 marks

2. Mark did a survey.

He asked pupils in his school:

'Do you like the colour of the school uniform?'

The table shows his results.

| | Yes | No | Don't know |
|--------|-----|----|------------|
| Year 7 | 35 | 17 | 2 |
| Year 8 | 20 | 24 | 5 |
| Year 9 | 19 | 17 | 6 |

- (a) How many pupils from **year 7** took part in the survey?



.....

1 mark

- (b) Altogether, more pupils said '**Yes**' than said '**No**'.
How many more?



.....

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4.

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They are not sure whether to go before 6pm or after 6pm.

How much will they save if they go **before** 6pm?

Show your working.



£

.....
.....
.....
3 marks

Key Stage 3: 2005 Paper 1 Level 3-5

5.

1. The table shows the average heights of boys and girls of different ages.

| Age (years) | Average height for boys (cm) | Average height for girls (cm) |
|-------------|-------------------------------------|--------------------------------------|
| 7 | 122 | 121 |
| 9 | 134 | 133 |
| 11 | 143 | 144 |
| 13 | 155 | 155 |
| 15 | 169 | 162 |

- (a) What is the average height for **girls** aged **9 years old**?



..... cm

1 mark

- (b) A boy and a girl are both **15 years old**.

Their heights are average for their age.

How much taller is the boy than the girl?



..... cm

1 mark

Key Stage 3: 2006 Paper 2 Level 3-5

6.

6. Five people played each other at tennis.
The table shows who **won** each game.

For example, when Bob played Ann, Bob won.

| | Ann | | | | |
|------|-----|------|------|-----|----|
| Ann | x | Bob | | | |
| Bob | Bob | x | Carl | | |
| Carl | Ann | Carl | x | Dan | |
| Dan | Ann | Dan | Carl | x | Ed |
| Ed | Ann | Bob | Carl | Dan | x |

- (a) **Ann** played four games.

How many games did she **win**?



1 mark

- (b) Write the name of the person who **lost all** their games.



1 mark

- (c) Explain why there is a cross (x) in some of the boxes.



1 mark

Key Stage 3: 2009 Paper 2 Level 4-6

7.

20. The table shows information about the rainfall in two places in South America.

| Place | Season | Mean rainfall | Number of months | Months |
|-------|--------|-----------------|------------------|-------------|
| A | Dry | 10 cm per month | 8 | Jan to Aug |
| | Wet | 20 cm per month | 4 | Sept to Dec |
| B | Dry | 5 cm per month | 10 | July to Apr |
| | Wet | 50 cm per month | 2 | May to June |

Which of the places has **more rainfall** on average over the whole year?

Show working to explain your answer.



Tick (✓) your answer.

☐

A

☐

B

2 marks

1. The table shows the different types of light bulb sold in a shop.

| | | Power | | | | |
|--------------|-----------|-------|-----|-----|------|------|
| | | 25W | 40W | 60W | 100W | 150W |
| Type of bulb | Round | ✓ | ✓ | ✓ | | |
| | Normal | | ✓ | ✓ | ✓ | ✓ |
| | Long life | | ✓ | ✓ | | |
| | Coloured | ✓ | | | | |
| | Reflector | | ✓ | ✓ | ✓ | |

Use this information to answer these questions.

- (a) **Long life** bulbs are sold with two different powers.

What are these powers?



_____ W and _____ W

1 mark

- (b) One type of bulb is **only** sold with a power of **25W**.

What type of bulb is this?



1 mark

Key Stage 3: 2010 Paper 2 Level 3-5

1. The table shows information about classes in a school.

| Class | Year group | Number of girls | Number of boys |
|-------|------------|-----------------|----------------|
| A | 10 | 16 | 12 |
| B | 9 | 13 | 13 |
| C | 10 | 14 | 15 |
| D | 8 | 12 | 14 |
| E | 11 | 14 | 14 |
| F | 7 | 15 | 16 |
| G | 8 | 12 | 13 |

- (a) Which two classes are in year 8?

Write their letters.



_____ and _____

1 mark

- (b) Which two classes have the **same number** of boys as girls?

Write their letters.



_____ and _____

1 mark

- (c) Which class has the **most pupils** altogether?

Write its letter.



1 mark

12. A shop charges to deliver food to people's homes.
The cost depends on the day of delivery.

| Day of delivery | Cost |
|----------------------|-------|
| Tuesday or Wednesday | £3.99 |
| Monday or Thursday | £4.99 |
| Friday or Saturday | £5.99 |
| Sunday | £6.99 |

| July 2008 | | | | | | |
|-----------|----|----|----|----|----|----|
| Su | M | Tu | W | Th | F | Sa |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

- (a) What is the cost of delivery on **18 July 2008**?



£

1 mark

- (b) Mrs Jones wants a delivery **every Thursday** in **July 2008**.
How much will that cost altogether?



£

1 mark

- (c) What is the cost of delivery on **5 August 2008**?



£

1 mark

11.

23. The table shows information about six types of bird that can be seen in Britain.
The birds are listed in order of size from biggest to smallest.

| Name of bird | Size of bird | When it can be seen | | Average egg length |
|---------------|---|---------------------|--------|--------------------|
| | | Summer | Winter | |
| Mistle Thrush | Biggest   Smallest | ✓ | ✓ | 31 mm |
| Fieldfare | | | ✓ | 29 mm |
| Blackbird | | ✓ | ✓ | 29 mm |
| Ring Ouzel | | ✓ | | 30 mm |
| Song Thrush | | ✓ | ✓ | 27 mm |
| Redwing | | | ✓ | 26 mm |

Use the table to answer these questions.

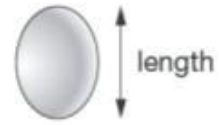
- (a) What is the name of the **smallest** bird that can be seen in **summer**?



1 mark

(b) Fred says:

In this table, the **bigger birds always have bigger egg lengths** than the smaller birds.



Is he correct?

☐

Yes

☐

No

Explain your answer.



1 mark

Key Stage 3: 2010 Paper 2 Level 4-6

12.

2. A shop charges to deliver food to people's homes.
The cost depends on the day of delivery.

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| July 2008 | | | | | | |
|-----------|----|----|----|----|----|----|
| Su | M | Tu | W | Th | F | Sa |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

- (a) What is the cost of delivery on **18 July 2008**?



£

1 mark

- (b) Mrs Jones wants a delivery **every Thursday** in **July 2008**.
How much will that cost altogether?



£

1 mark

- (c) What is the cost of delivery on **5 August 2008**?



£

1 mark

13.

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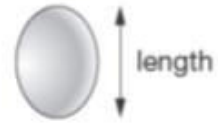
- (a) What is the name of the **smallest** bird that can be seen in **summer**?



1 mark

(b) Fred says:

In this table, the **bigger birds always have bigger egg lengths** than the smaller birds.



Is he correct?

☐

Yes

☐

No

Explain your answer.



1 mark

Key Stage 3: 2011 Paper 1 Level 4-6

14.

1. The table shows information about all the pupils in a class.

| | Number of boys | Number of girls |
|------------|----------------|-----------------|
| Brown eyes | 9 | 7 |
| Blue eyes | 3 | 8 |

Use the table to show what the numbers below represent.

The first one is done for you.

There are **9** boys with brown eyes.



There are **8** _____

1 mark



There are **15** _____

1 mark



There are **27** _____

1 mark

20. This table shows some students' scores in a mathematics and a science test.

| Student | A | B | C | D | E | F | G | H | I | J |
|-------------|----|----|----|----|----|----|----|----|----|----|
| Mathematics | 29 | 33 | 17 | 44 | 21 | 18 | 30 | 31 | 12 | 18 |
| Science | 23 | 31 | 15 | 39 | 20 | 18 | 17 | 29 | 13 | 17 |

- (a) One of the students was feeling ill during the science test.

Which student is that most likely to be?



Student _____

1 mark

- (b) Another student was absent from the science test, but scored **38** in the mathematics test.

What mark would you expect them to have scored in the science test if they had been able to take it?



2 marks