

Name: _____

BennettMaths AQA 2F – Part 2

- 6** A game has four cards labelled W, X, Y and Z.
Holly picks two of the cards at random.

Complete the list of the **six** possible pairs of cards she could pick.

[2 marks]

WX

- 7 (a)** Complete the boxes using
two **different** even numbers
and
two **different** odd numbers.

[2 marks]

$$\square + \square + \square + \square = 38$$

- 7 (b)** Complete the boxes using
a factor of 24
and
a factor of 50.

[2 marks]

$$\square \times \square = 40$$

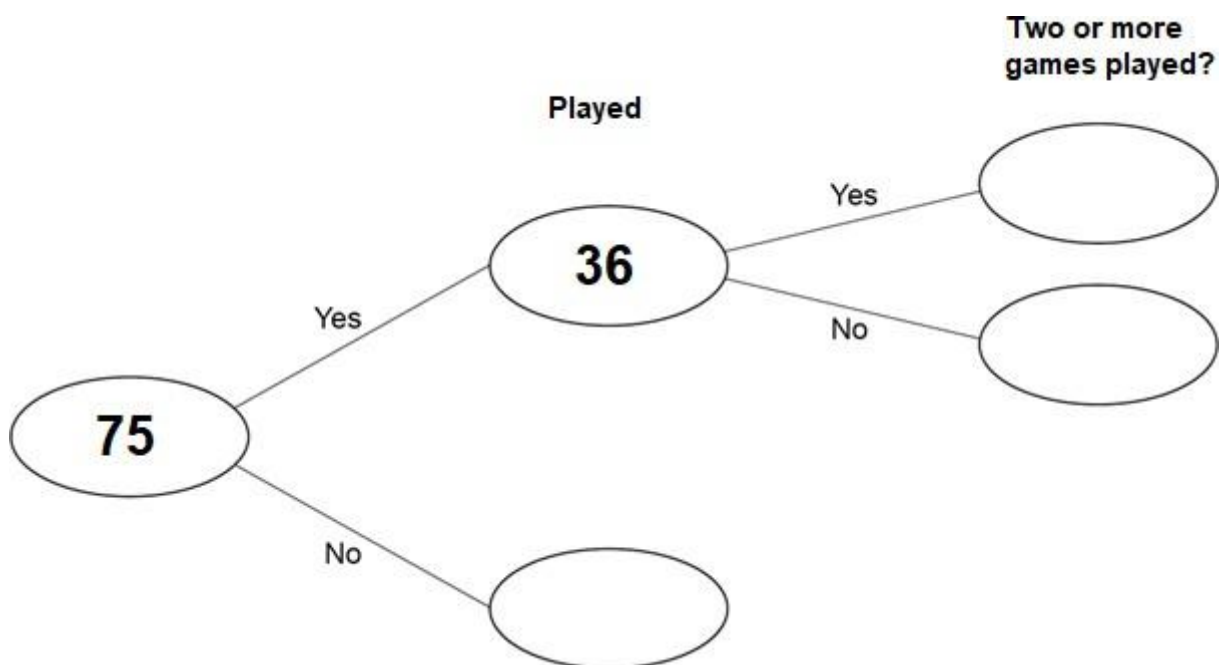
- 7 (c)** Complete the boxes using
a square number
and
a prime number.

[2 marks]

$$\square \div \square = 32$$

Turn over for the next question

- 8** 75 people were asked if they played online games one day.
The frequency tree shows some information about their answers.



- 8 (a)** 75% of the people who answered Yes played one game.

Complete the frequency tree.

[3 marks]

- 8 (b) One of the 75 people is chosen at random.

P(used social media) is **more than** 0.63

What is the **smallest** possible number of people who used social media?

[2 marks]

Answer _____

Turn over for the next question

- 9 (a)** The cost of a TV streaming service is
£9 per month for the first 2 months
then
£16 per month for the rest of the year.

Work out the **total** cost for the year.

[2 marks]

Answer £ _____

- 9 (b)** A TV series has twelve episodes.
Eleven episodes are each 40 minutes long.
One episode is 1 hour 22 minutes long.

Work out the **total** length of the series.

Give your answer in hours and minutes.

[3 marks]

Answer _____ hours _____ minutes

10 (a) There are 1440 books in a library.

$\frac{2}{3}$ of the books are fiction.

How many are fiction?

[2 marks]

Answer _____

10 (b) There are milk chocolates and dark chocolates in a box.

The ratio of milk : dark is 7 : 4

What fraction of the chocolates are milk?

[1 mark]

Answer _____

10 (c) There are some pens in the box.

114 are black.

36 are not.

What percentage of the pens are black?

[2 marks]

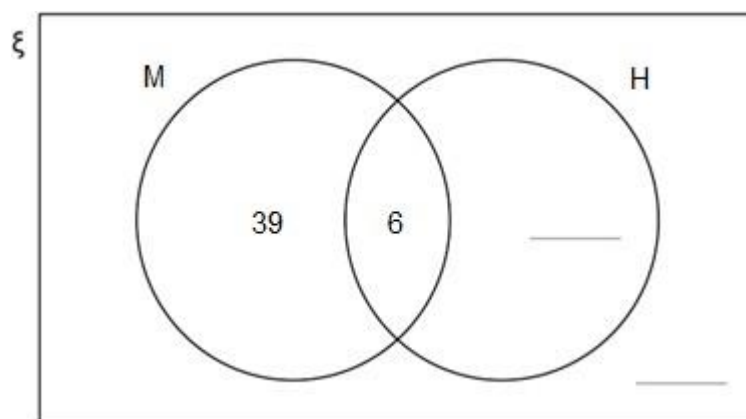
Answer _____ %

11 Here is a Venn diagram.

$\xi = 60$ students

M = people who own a mobile phone

H = people who own headphones



11 (a) 11 of the people own headphones.

Complete the Venn diagram.

[2 marks]

11 (b) One of the 60 students is chosen at random.

What is the probability that they own **both** a mobile phone and headphones?

[1 mark]

Answer _____

- 11 (c)** Charlie is going to buy headphones that cost £45
He already has £17
He plans to save the rest in four equal amounts over the next four weeks.
He uses this method to work out in pounds how much to save each week.

$$45 - 17 \div 4$$

What is wrong with his method?

[1 mark]

Turn over for the next question

12

Sune says that $2 : 5$ is an equivalent ratio to $6 : 15$

Peter says that $1.2 : 3$ is an equivalent ratio to $6 : 15$

Who is correct?

Tick **one** box.

☐

Both of them

☐

Sune only

☐

Peter only

☐

Neither of them

Give reasons for your answer.

[2 marks]
