W/C: 14/05/18

Name…….

Teacher…….

Assessment Week F

Year 10 Foundation Tier Maths GCSE

Non-Calculator Paper

Time allowed: 1 Hour

Maximum mark: 54

1 Circle the decimal which has the same value as $\frac{3}{5}$

[1 mark]

0.06 0.35 0.6 3.5

2 How many millimetres are there in 7.5 centimetres?

Circle your answer.

[1 mark]

0.75 70.5 75 750 7500

3 Which of these shapes has two lines of symmetry?

Circle your answer.

[1 mark]

Semicircle Rhombus Trapezium Isosceles triangle

4 Circle the number that is 7 less than –12

[1 mark]

–19 –5 5 19

5 (a) Solve $x - 3 = 14$

[1 mark]

$x =$ _____

5 (b) Solve $5y = 45$

[1 mark]

$y =$ _____

5 (c) Solve $8 + w = 6$

[1 mark]

$w =$ _____

6 (a) Work out $9174 \div 11$

[2 marks]

Answer _____

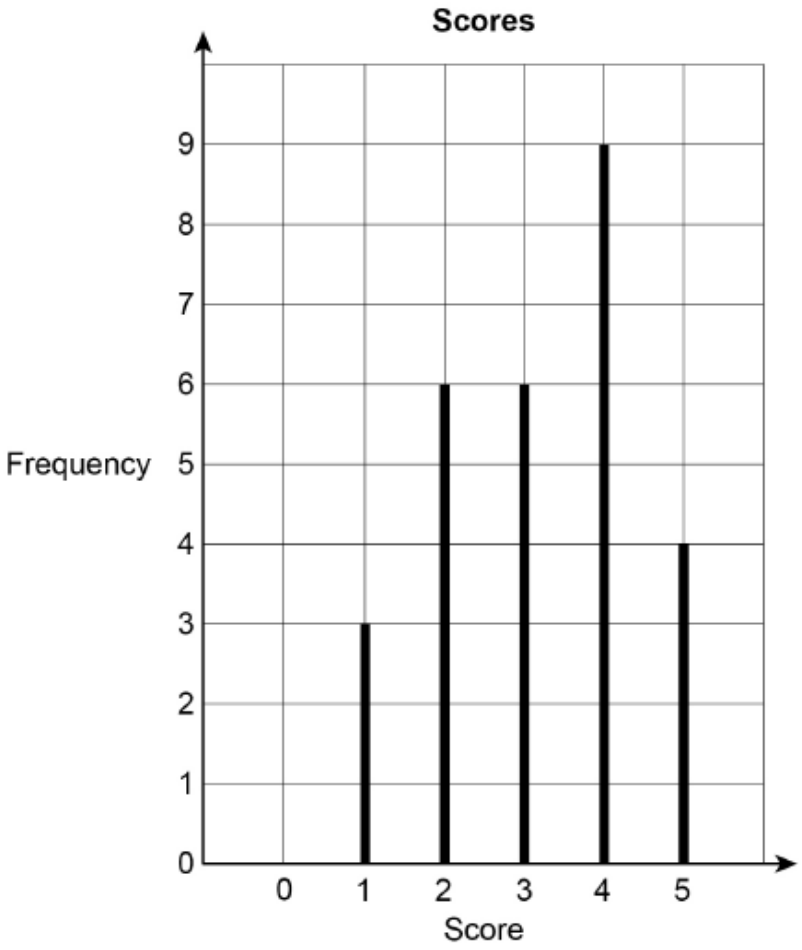
6 (b) Work out $\frac{5}{6} + \frac{3}{7}$

Give your answer as a mixed number.

[3 marks]

Answer _____

7 The diagram shows the scores given by judges during a television show.



7 (a) Which score was the mode?

[1 mark]

Answer _____

7 (b) There were 4 judges.

Each judge gave one score in each round.

How many rounds were there?

[3 marks]

_____

_____

_____

Answer _____

8 A library book was due to be returned on 27 September.

It was actually returned on 14 October.

There is a fine of 8p for every day the book is late.

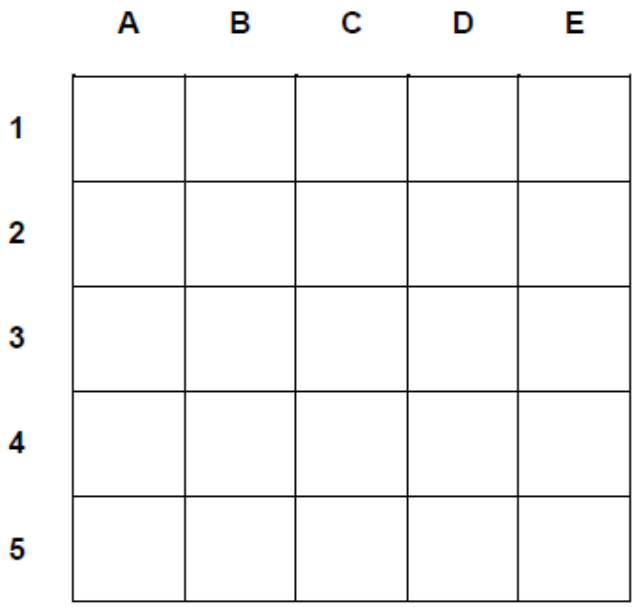
Work out the total fine.

[3 marks]

Answer £ _____

9 In a game, three stars are hidden at random.

Each star is behind a different square on this board.



9 (a) A square is chosen at random.

What is the probability that there is a star behind it?

[1 mark]

Answer _____

9 (b) In one game, the stars are behind three consecutive squares.

The squares are in one row or one column.

One of the squares is E2

Write down **all** the possible pairs for the other two squares.

[2 marks]

_____

_____

_____

Answer _____

10 Complete the table to show equivalent fractions and percentages.

[3 marks]

Fraction	Percentage
$\frac{1}{2}$	50%
$\frac{3}{10}$	
	43%
$\frac{5}{2}$	

11 (a) Cards in a pack are red or blue in the ratio

red : blue = 2 : 3

What fraction of the cards are **red**?
Circle your answer.

[1 mark]

$\frac{5}{6}$ $\frac{2}{3}$ $\frac{2}{5}$ $\frac{3}{5}$

11 (b) A different pack has 72 cards.

$\frac{5}{9}$ are yellow.

Work out the number of yellow cards.

[2 marks]

Answer _____

12 (a) How many edges are there on a square-based pyramid?

Circle your answer.

[1 mark]

4 5 8 12

12 (b) How many faces of a triangular prism are triangles?

Circle your answer.

[1 mark]

2 3 4 5

13 A bus can be early, on time or late.

The probability that the bus is early is 0.1

The probability that the bus is on time is 0.6

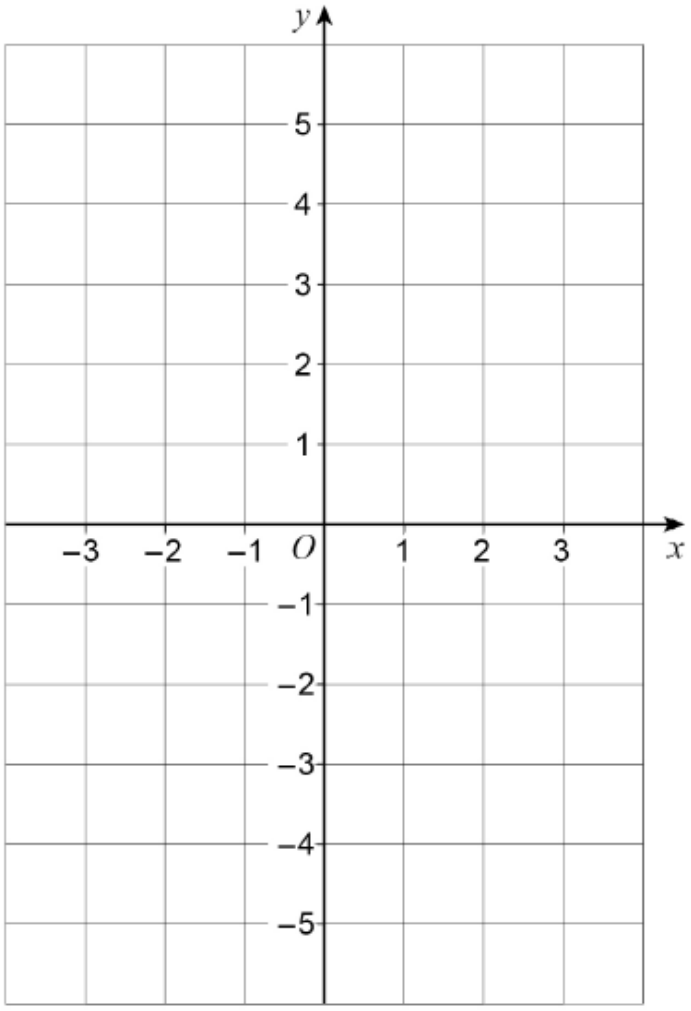
Work out the probability that the bus is late.

[2 marks]

Answer _____

14 On the grid, draw the graph of $x + y = 2$ for values of x from –3 to 3

[2 marks]



15 5% of a number is 31

1% of the same number is 6.2

Work out 13% of the number.

[3 marks]

Answer _____

16 Complete the grid so that when you

multiply the three numbers in any column, row or diagonal the answer is 1

[3 marks]

10		$\frac{1}{2}$
$\frac{1}{20}$		20
2	5	

17 A sequence has three terms.

The term-to-term rule for the sequence is

multiply by 8 and then add 11

17 (a) The first term of the sequence is –1

Work out the third term.

[2 marks]

Answer _____

17 (b) The order of the three terms is reversed to make a new sequence.

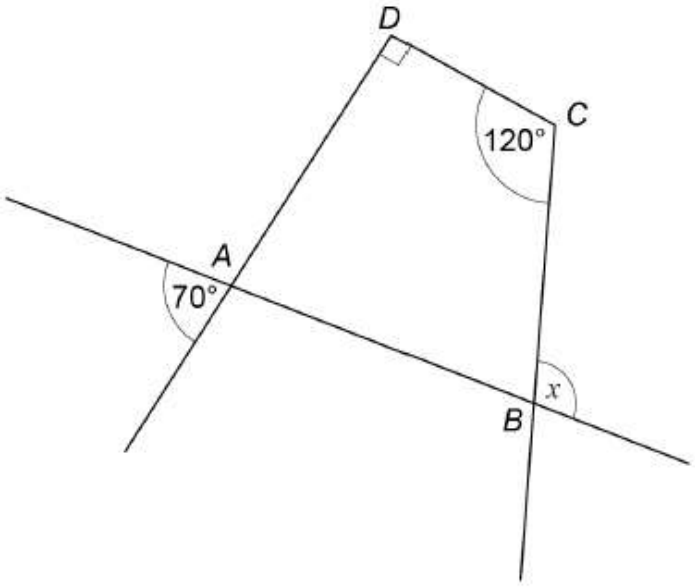
Work out the term-to-term rule for this sequence.

[1 mark]

Answer _____

18 *ABCD* is a quadrilateral.

Sides are extended as shown.



Not drawn accurately

Show that $x = 100°$

[3 marks]

19 Use 2 gallons = 9 litres to convert 17 gallons into litres.

[3 marks]

Answer _____ litres

20 n is an odd number.

p is a prime number.

In each part write down possible values of n and p so that

20 (a) $n + p$ is a square number.

[1 mark]

$n =$ _____ $p =$ _____

20 (b) np is a square number.

[1 mark]

$n =$ _____ $p =$ _____

21

$x : y = 7 : 4$

$x + y = 88$

Work out the value of $x - y$

[3 marks]

Answer _____

END OF QUESTIONS