

W/C: 14/05/18

Name.....

Teacher.....

**Assessment Week** 

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Year 10 Foundation Tier Maths GCSE

Non-Calculator Paper

Time allowed: 1 Hour

Maximum mark: 54

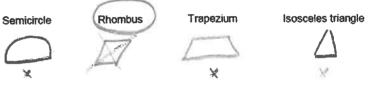
1 Circle the decimal which has the same value as  $\frac{3}{5}$  =  $\frac{6}{10}$  = 0 6 [1 mark] 0.06 0.35 0.6 3.5

How many millimetres are there in 7.5 centimetres? [CM = [OMM] x 7 5 Circle your answer. [1 mark]

0.75 70.5 750 7500

3 Which of these shapes has two lines of symmetry?
Circle your answer.

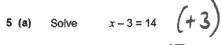
[1 mark]



4 Circle the number that is 7 less than -12

[1 mark]

$$-19$$
  $-5$  5 19  $-12$   $-7$  =  $-19$ 



[1 mark]

$$x = \underbrace{\chi = 17}_{}$$

5 (b) Solve 
$$5y = 45$$
 ( - 5)

[1 mark]

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

[1 mark]

Work out

9174 + 11

0834

Need a common denominator

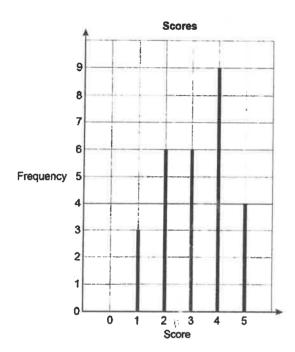
Give your answer as a mixed number.

	5 +	3		[3 marks
	6	17 X	(	- On any land Window
/	14.9	х6		
X7	35	18	<u>- 53</u>	_/]
4	42	*42	42	1 42

Answer

[2 marks]

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



7 (a) Which score was the mode?

wast common

[1 mark]

	12	
Answer	 	

7 (b) There were 4 judges.

Each judge gave one score in each round.

How many rounds were there?

$$3+6+6+9+4=28$$

$$28+4=7$$

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.

V - 06	September has 30 days.
10 x 8 = 80 -	Ų
7x8=56 _	3+14=17 days late
136p	17×8 = 136p = 21-36

Answer £	1.36	

[3 marks]

Each star is behind a different square on this board.

	A	8	С	D	E
1					
2					X
3					
4					
5					

25 squares

10

9 (a) A square is chosen at random.

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

[1 mark]

	3
Answer	20

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]

_	E	and	€3	
01/1-	CZ	and	D2	
05/1-	E4	and	E3	

Fraction Percentage

$$\frac{1}{2}$$
50%

 $\frac{3}{10}$ 
30 /.

 $\frac{43}{100}$ 
43%

 $\frac{5}{2}$ 
250 /.

$$*\frac{3}{10} = \frac{30}{100} = 30\%$$

11	(a)	Carde	in s	nack	are red	or blue	in the	ratio
11	(a)	Cards	1111 6	a Dack	are red	or blue	ın tne	ratic

red:blue = 2:3

2+3=5

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

[1 mark]

[2 marks]

<u>5</u>

 $\frac{2}{3}$ 

 $\left(\frac{2}{5}\right)$ 

 $\frac{3}{5}$ 

## 11 (b) A different pack has 72 cards.

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

Work out the number of yellow cards.

5	4	-1 2
	0)	+1
a		

72:9=8

8x5= 40

Answer 40

95772

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

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

Probability adds up to 1

5

Work out the probability that the bus is late.

[2 marks]

0.1 + 0.6 = 0.7

1 - 0.7 = 0.3

Answer \_\_\_\_\_ 0 :3

[2 marks]

- 5% of a number is 31

1% of the same number is 6.2 Work out 13% of the number.

1% = 6.2 3% = 18.6

[3 marks]

15

16

Complete the grid so that when you

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

[3 marks]

$$0.10 \times \frac{1}{2} = 5$$

20

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

(3)	2	5	10	-

$$2\frac{1}{20} \times 20 = 1$$
 $1 \times 1 = 1$ 

$$(3)$$
 2×5 = 10

$$10 \times \frac{1}{10} = 1$$

47	

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.

	0	-	1												
_(	2)	_	Lx	: 8	?	+		1	=	-	8	+	l	1	<del>-</del> 3
_(	3)	3	X	8	t	1	1	-	- 4	4	+	- 1	I	all by	35

Answer	35	

## 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.

take	away	11	and	dev	(de
	- Joy	1 2	. 1		

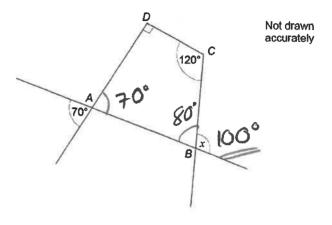
Answer

18

[2 marks]

ABCD is a quadrilateral,

Sides are extended as shown.



Show that  $x = 100^{\circ}$ 

[3 marks]

$$360-280=80^{\circ}$$

\* angles in a quadrilateral add upto
360°

\* angles on a straight line add up to
180°

\* angles that are vertically opposite are
the same.

x: y = 7:4x + y = 88Work out the value of x-y56 - 32 = 24Answer **END OF QUESTIONS** 

[3 marks]

21