ALLEYN'S JUNIOR SCHOOL

9+

MATHEMATICS SAMPLE PAPER

Name:						
Instruction Time: 35 minutes	tions for Candidates					
Show all your working where necessary						
You should write with a pencil and may use a ruler and rubber						
NO CALCULATORS ALLOWED						
For use by marker						
Mark:	/50					
Comments:						

Circle your answer.

1.	What is the next number in the following pattern? 9, 12, 15, 18								
	A. 54	B. 32	C. 21	D. 23					
2.	What is the rise in temperature from -1°C to 8°C								
	A. 13 °C	B. 9°C	C3°C	D 7°C					
3.	One of the following is the same as 200cm. Which one?								
	A. 0.2m	B. 2m	C. 20m	D. 2km					
4.	Write 180 seconds in minutes.								
	A. 3	B. 4	C. 2	D. 5					
5.	The sum of two numbers is 14 and their difference is 4. What are the two numbers?								
	A. 3 and 11	B. 4 and 8	C. 4 and 10	D. 5 and 9					
	(1 mark each) 5								

Circle your answer.

6.
$$7 \times 6 =$$

A. 41

B. 17

C. 42

D. 24

A. 1.0

B. 2.0

C. 20

D. 0.20

8. Which is the smallest number in this list: 0.83, 0.8, 0.08, 1.80

A. 0.83

B. 0.8

C. 0.08

D. 1.80

9.
$$81 \div \odot = 27$$
 What number is \odot ?

A. 9

B. 3

C. 1.8

D.21

10.
$$\frac{1}{2}$$
 of a number is 18. What is the number?

A. 54

B. 9

C. 36

D. 36

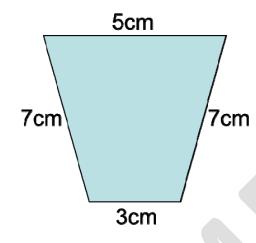
(1 mark each)

Answer the following questions. Show your working out.

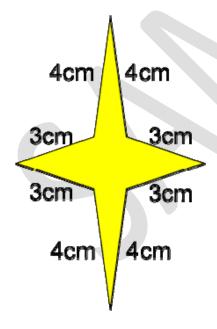


_	an sco em so		out o	f 20 ir	n a me	ental a	ırithme	etic te	est	and 19	out of 30 in
a)	What	overa	ıll mar	k did s	she so	core o	ut of 5	50?			_ (2 marks)
b)	What	was h	ner pe	rcenta	ige?				_)	_ (2 marks)
16. Look	at the	follow	/ing n	umber	S.						
21,	22,	23,	24,	25,	26,	27,	28,	29,	3	0	
Write	e dowr	n whic	h of th	nem a	re:						
a)	Even	numb	ers								_ (2 marks)
b)	Facto	rs of 1	100								_ (2 marks)
c)	Multip	oles of	3								_ (2 marks)
17.A length of string is 65 centimetres long and is cut into 10 equal pieces.											
a) How long is each piece of string in centimetres?											
								_ cm			(2 marks)
b) How long is each small piece of string in millimetres?											
								_ mm	1		(2 marks)
											 14

- (a) Draw lines of symmetry on the following two shapes. (2 marks)
- (b) Work out their perimeters. (2 marks)

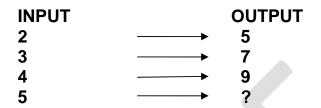


Perimeter =____



Perimeter =_____

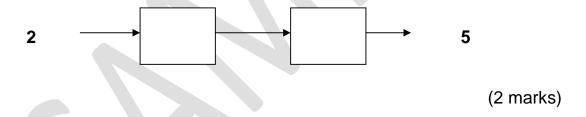
When I input the number 2 in to the number machine, my answer is 5. Look what happens to all the numbers I input in to my machine.



(a) What will the output be when I input 5?

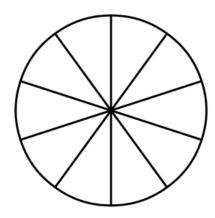


(b) Can you work out the rule for finding how any number I input is changed?



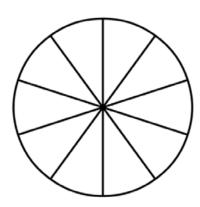
a) Shade in 6 tenths of this circle?

(2 marks)



b) Now shade in 2 fifths of this circle?

(2 marks)



c) If you subtracted **2 fifths** from **6 tenths** how many **fifths** would be left?

_____ fifths (2 marks)

Look at the graph below to see how much rain fell in London during a week.

a) If 175 mm of rain was recorded in London last week, how much rain fell on Tuesday?

_____ mm (2 marks)

b) Shade in the graph below to indicate this.

(2 marks)

