

11+ Entrance and Scholarship Examination 2019

MATHEMATICS

Time allowed: 45 minutes

Name:

Instructions:

The test is 45 minutes long.

You may not use a calculator.

Section A contains 20 multiple choice questions.

Answer each question by drawing a circle around the correct answer like this:

A	B	С	D
---	---	---	---

Use the space on the paper for working out.

Section B contains 3 problem-solving questions.

Attempt all questions, and use the space on the paper to clearly show your working out.

SECTION A: MULTIPLE CHOICE QUESTIONS

This section contains 20 questions.

1.				
	What is the differ following numbe		e largest and the	smallest of the
	0.9	0.17	0.72	0.73
	A. 0.9	B. 0.17	C. 0.72	D. 0.73
	Working out:	1		
2.				
	What is the smal digits?	lest four-digit pos	itive integer whic	ch has four different
	A. 1032	B. 1021	C. 1234	D. 1023
	Working out:	L	1	
3.				
	What is (999 – 99	9 + 9) ÷ 9 ?		
	A. 99	B. 100	C. 101	D. 109
	Working out:	L		

	Each block shown have a number di Some are already		Ļ	
	For each block ab row, the number the numbers on t stands upon. What number sho	on it is the sum of he two blocks it	34 n 9	65 15 7
	A. 6	B. 10	C. 11	D. 13
5.	The number 987 (654 321 is multiplie	d by 9.	
5.		654 321 is multiplie does the digit 8 occ		
5.				D. 9

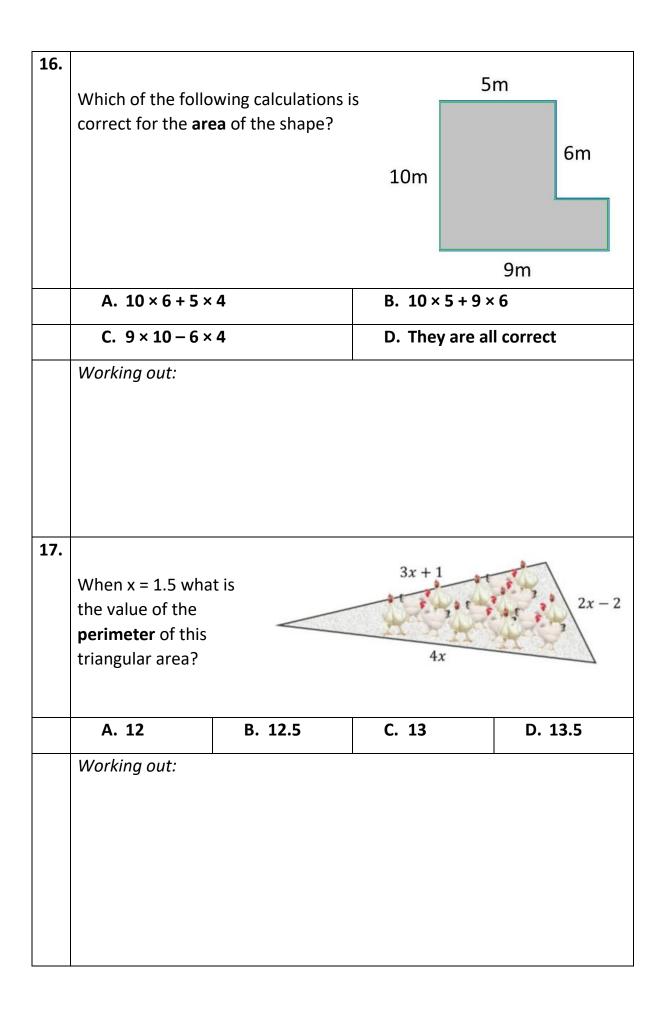
6.				
	Which of the follo	wing has the same	e remainder when i	t is divided by 2
	as when it is divid			
	A. 5	B. 7	C. 9	D. 11
	Working out:			
7.				
	M/bat is the value	of 19 + 99 + 19 × 9	02	
		0 19 + 99 + 19 × 9	191	
	A. 1999	B. 11701	C. 13 563	D. None of
				these
				these
	Working out:			
1				

8.	In this diagram, w	hat is the value of	x?	
			x°	
		_100°		324°
	A. 36	B. 64	C. 100	D. 144
	Working out:			
9.				
5.	How many triangl	es of anv		
	size are there in t	I	\rightarrow	
	A. 8	B. 10	C. 12	D. 14
	Working out:			

10.				
	Which of these c	alculations produc	ces a multiple of 5?	
	A. 1+2×3+	- 4	B. 1 × 2 + 3 ×	< 4
	C. 1+2×3×	: 4	D. 1 × 2 × 3 ×	4
	Working out:			
11.				
	human is likely to that the populat	o swallow about 8 ion of the UK is are	average lifetime of spiders while sleep ound 60 million, wh that are consumed	bing. Supposing nat is the best
	A. 600 000	B. 7 000 000	C. 80 000 000	D. 900 000 000
	Working out:			

12.				
	Which of the follo inclusive?	wing is divisible by	all of the numbers	from 1 to 10
	A. 34 × 45	B. 45 × 56	C. 56 × 27	D. 67 × 78
	Working out:			
13.	Which one of thes	e calculations is in	correct?	
	A. 4 × 5 + 67 =	45 + 6 × 7	B. 3 × 7 + 48 =	37 + 4 × 8
	C. 2 × 5 + 69 =	25 + 6 × 9	D. 9 × 6 + 73 =	96 + 7 × 3
	Working out:			

14.				
	If the following fr	actions are arrange	ed in increasing ord	er of size which
	one is in the small			
	A. $\frac{1}{2}$	B. $\frac{3}{5}$	C. $\frac{4}{7}$	D. $\frac{5}{9}$
	2	5	7	9
	Working out:			
15.				
	In the sequence w	hich begins 2. 3.	5, 10, each num	ber after the
			numbers in the se	
	What is the 10 ^m n	umber in the sequ	ence?	
	A. 47	B. 170	C. 640	D. 1280
	A. 47	B. 170	C. 040	D. 1200
	Working out:			



18.				\sim
	Kieran thinks of a	number.		and and
	He doubles it and	adds 6.	(00)	
	He then divides it	by 2.		
	The answer is 8.			M3
	What was his orig	inal number?		
	A. 5	B. 11	C. 20	D2
	Working out:			
19.			``	
		pletes the symmet	ric figure	`
	using the dashed l	ine of symmetry?		
				×.
	A.	B.	C.	D.
	Working out:			

20.							
		mbers from this nu one number from (1	2	3	
	and one number f	from each column.		4	5	6	
		e three numbers to st possible product		7	8	9	1
	what is the larges			1940]
	A. 96	B. 105	C. 162		D. !	504	
	Working out:						

END OF SECTION A

MOVE STRAIGHT ONTO SECTION B

SECTION B: PROBLEM-SOLVING QUESTIONS

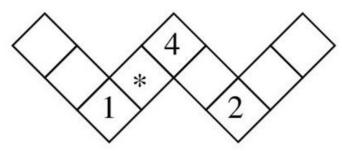
This section contains 3 questions.

Use the space on each page to clearly show your working out.

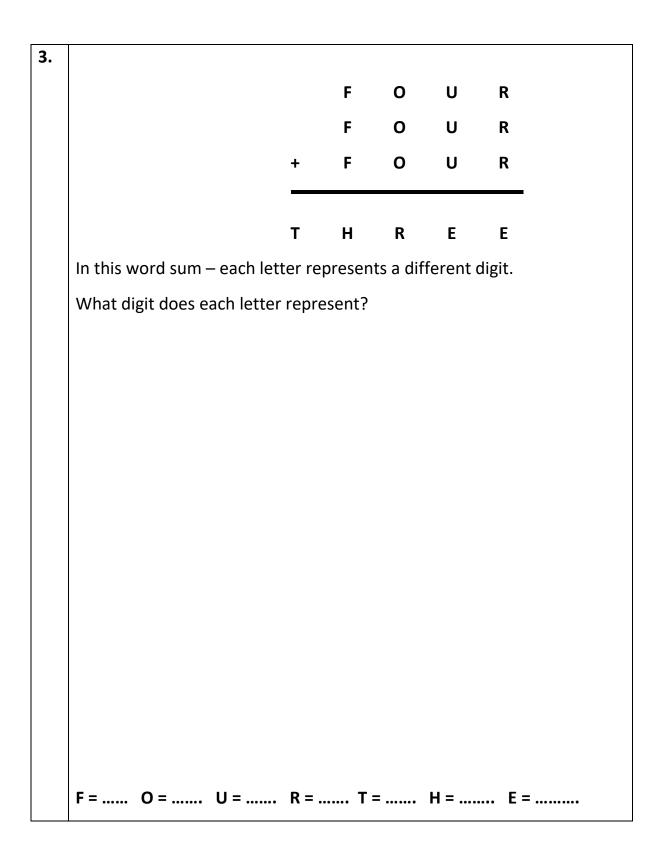
1.	
	A swimming pool has a length that is four times its width.
	The length and width are both multiples of 5.
	The perimeter is less than 150m.
	How many different widths could it have?

2.

The numbers from 1 to 9 inclusive are to be placed, one number in each square, in to the shape shown below, so that the total of the three numbers in each of the four lines is the same.



Which number should replace * ?



TEST COMPLETE

NOW GO BACK AND CHECK YOUR WORK CAREFULLY