

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:

А	В	С	D

Use the space on the paper for working out.

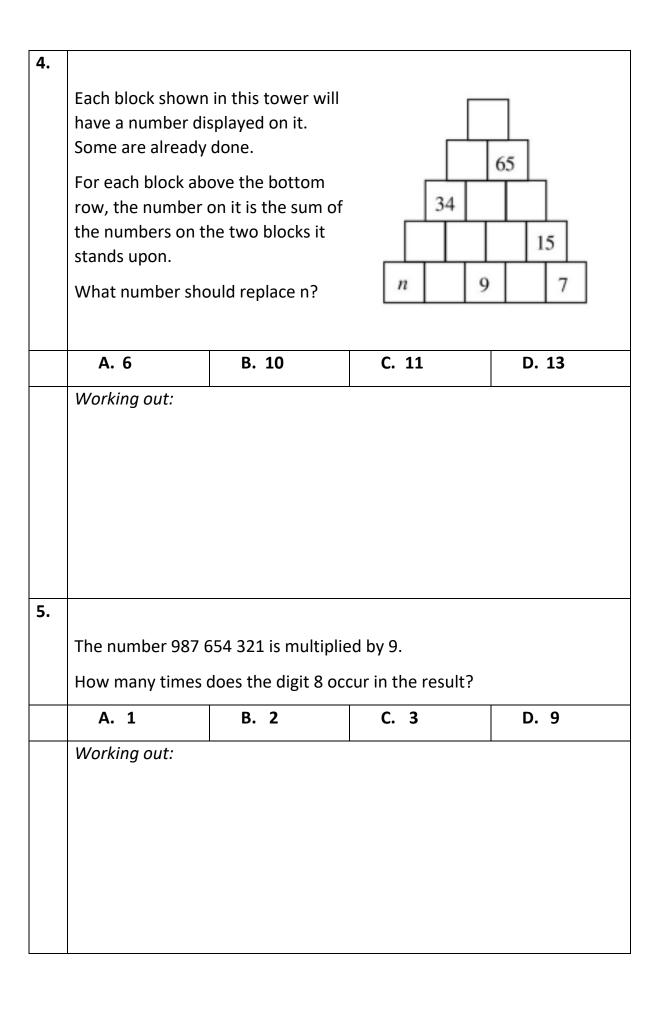
Section B contains 3 problem-solving questions.

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

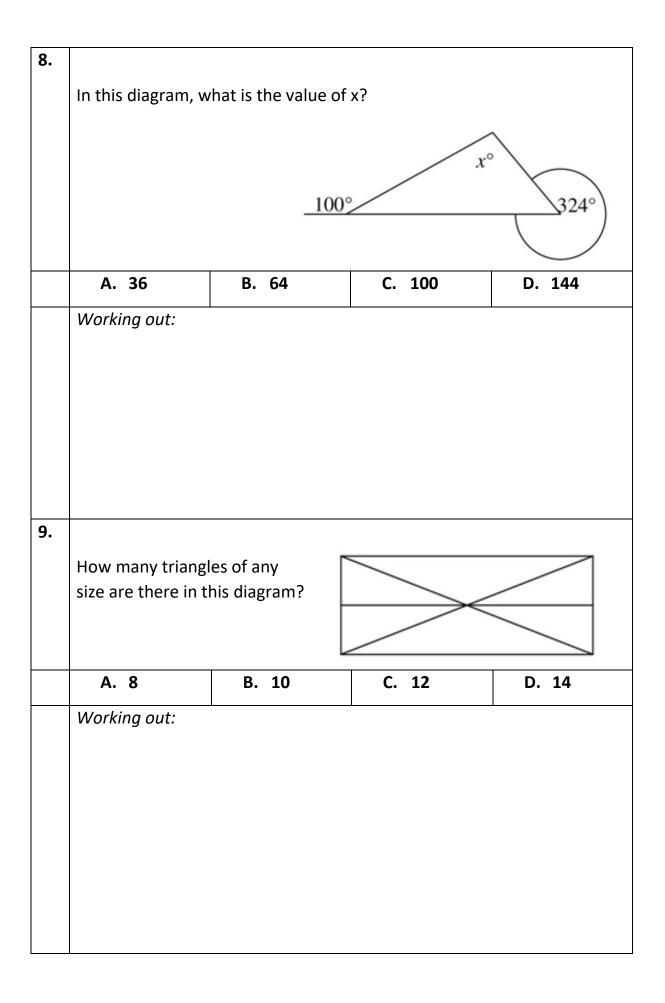
SECTION A: MULTIPLE CHOICE QUESTIONS

This section contains 20 questions.

	What is the difference between the largest and the smallest of the following numbers:				
	0.9	0.17	0.72	0.73	
	A. 0.9	B. 0.17	C. 0.72	D. 0.73	
	Working out:				
2.	What is the smalle digits?	est four-digit positi	ve integer whicl	n has four different	
	A. 1032	B. 1021	C. 1234	D. 1023	
	Working out:				
3.	What is (999 – 99	+ 9) ÷ 9 ?			
3.	What is (999 – 99 A. 99	+ 9) ÷ 9 ? B. 100	C. 101	D. 109	



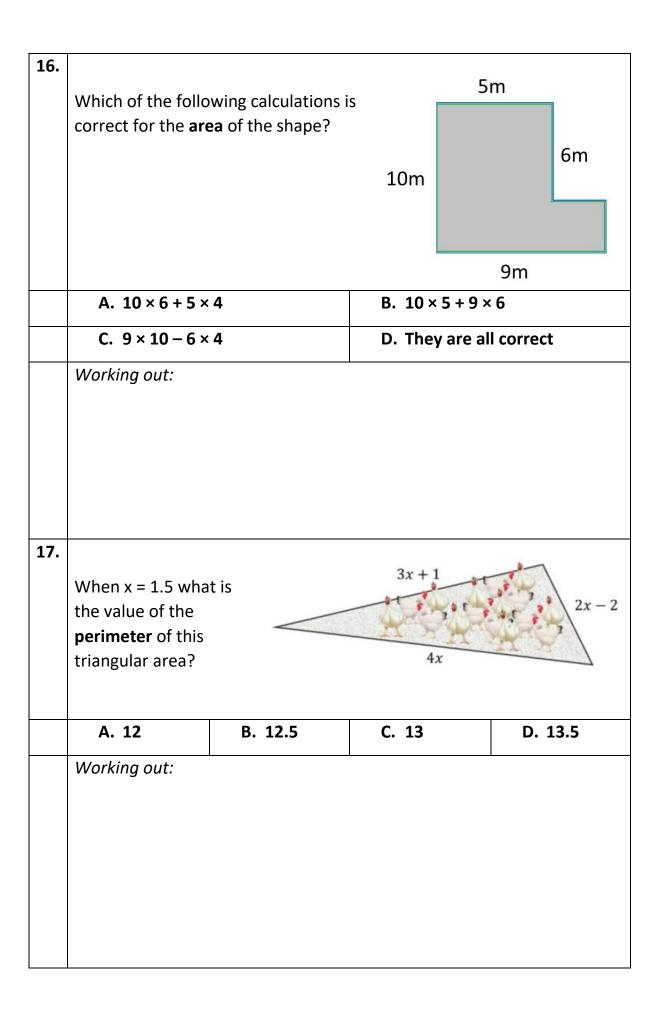
6.				
	Which of the follo	wing has the same	remainder when i	t is divided by 2
			remaniuei Wileli I	t is divided by 2
	as when it is divid	eu by 5:		
	A. 5	B. 7	C. 9	D. 11
	Working out:			
7.				
	What is the value	of 19 + 99 + 19 × 9	9?	
	A. 1999	B. 11 701	C. 13 563	D. None of
				these
	Working out:			

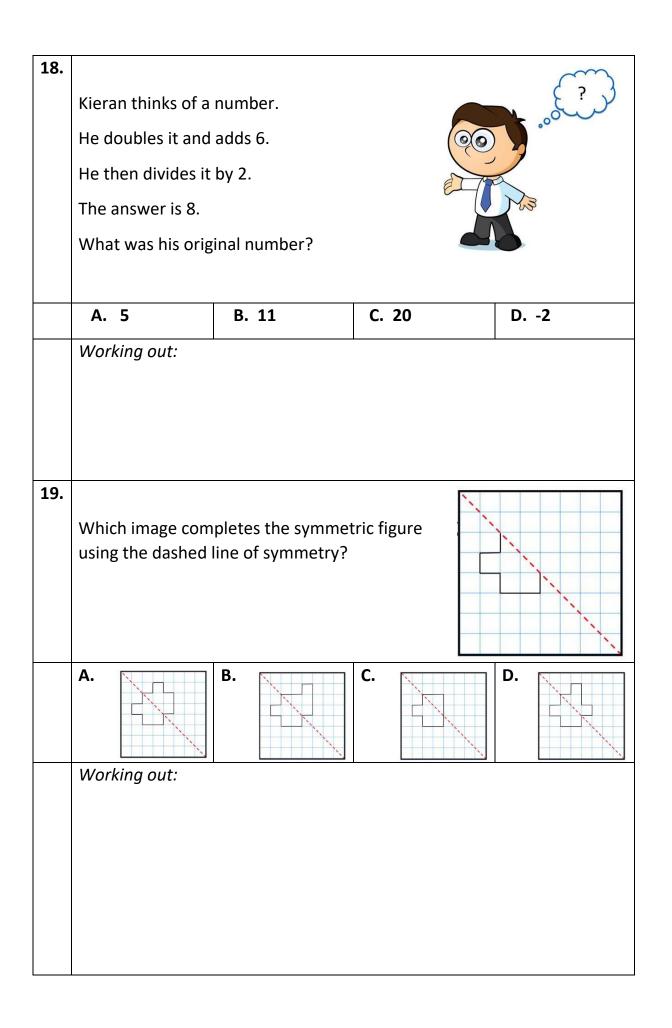


	Which of these	calculations produc	ces a multiple of 5?	
	A. 1+2×3	+ 4	B. 1×2+3×	: 4
	C. 1+2×3	× 4	D. 1 × 2 × 3 ×	: 4
	Working out:			
11.			116	
		recently that in an to swallow about 8	_	-
	_	tion of the UK is are	-	
		number of spiders	that are consumed	in this way in the
	UK each year?			
	1 500 000	D = 000 000	0.00.000.000	D 000 000 000
	A. 600 000	B. 7 000 000	C. 80 000 000	D. 900 000 000
	A. 600 000 <i>Working out:</i>	B. 7 000 000	C. 80 000 000	D. 900 000 000
		B. 7 000 000	C. 80 000 000	D. 900 000 000
		B. 7 000 000	C. 80 000 000	D. 900 000 000
		B. 7 000 000	C. 80 000 000	D. 900 000 000
		B. 7 000 000	C. 80 000 000	D. 900 000 000
		B. 7 000 000	C. 80 000 000	D. 900 000 000
		B. 7 000 000	C. 80 000 000	D. 900 000 000
		B. 7 000 000	C. 80 000 000	D. 900 000 000
		B. 7 000 000	C. 80 000 000	D. 900 000 000

12.				
	Which of the follo	owing 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 the	se 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 =	90 + / × 3
	Working out:			

14.				
	If the following f	ractions are arrang	and in increasing o	order of size, which
	one is in the sma		ged in increasing o	order of size, willer
	A. $\frac{1}{2}$	B. $\frac{3}{5}$	C. $\frac{4}{7}$	D. $\frac{5}{9}$
	Working out:			
	Working out.			
15.				
15.	In the sequence	which hagins 2 2	5 10 each nu	umbar after the
15.		which begins 2, 3,		
15.	second is the sur	m of all the previo	us numbers in the	
15.	second is the sur		us numbers in the	
15.	second is the sur	m of all the previo	us numbers in the	
15.	second is the sur	m of all the previo	us numbers in the	
15.	second is the sur What is the 10 th	n of all the previo	us numbers in the uence?	sequence.
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15.	second is the sur What is the 10 th	n of all the previo	us numbers in the uence?	sequence.





1	T					
20.	square, including and one number f	mbers from this nu one number from from each column. e three numbers to ot possible product	each row	1 4 7	2 5 8	3 6 9
	A. 96	B. 105	C. 162		D. !	504
	Working out:					

END OF SECTION A

MOVE STRAIGHT ONTO SECTION B

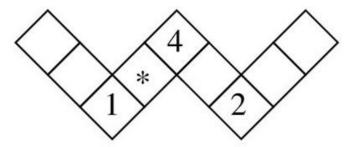
SECTION B: PROBLEM-SOLVING QUESTIONS

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?

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 *?

3. F 0 U R F 0 U R F 0 U R Н Ε Т R Ε In this word sum – each letter represents a different digit. What digit does each letter represent? F=..... O=..... U=..... R=..... H=..... E=......

TEST COMPLETE

NOW GO BACK AND CHECK YOUR WORK CAREFULLY