

11+ ENTRANCE TEST

2019

MATHEMATICS



Time allowed: 45 minutes

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	B	С	D
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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.										
			8	0	8	6				
		+	4	3	5	5				
	A. 1231311	B. 12441			C. 1	L 23 4	1	D. 1	2301	
	Working out:									
2.	What is the answe	er to	0.2	2 × ().03					
	A. 6	B. 0.600				006	5	D 0	6	
					C. (•	D. 0	.0	
	Working out:				<u>c. (</u>					
3.	Working out:									
3.	Working out: Work out		6 –	2 +	3 × 4	1. 1.				
3.	Working out: Work out	D. 46	6 –	2 +	3 × 4	4				
3.	Working out: Work out A. 28	B. 16	6 –	2 +	3 × 4 C. -:	L8		D. 4		
3.	Working out: Work out A. 28 Working out:	B. 16	6 –	2 +	3 × 4 C:	L8		D. 4		
3.	Working out: Work out A. 28 Working out:	B. 16	6 –	2 +	3 × 4	1 18		 D. 4		
3.	Working out: Work out A. 28 Working out:	B. 16	6 –	2 +	3 × 4 C:	L8		D. 4		
3.	Working out: Work out A. 28 Working out:	B. 16	6 –	2 +	3 × 4 C:	L8		D. 4		

4.	What is the answer when the first prime number is subtracted from the first even multiple of 7?				
	A. 5	B. 11	C. 12	D. 13	
	Working out:				
5.	Evaluate this expr	ession			
		5(6x + 1	7y — 8z)		
	x = 9				
	y = 3				
	2 - 0				
	A. 95	B. 120	C. 135	D. 180	
	Working out:				
6.	Add brackets to th	nis calculation to th	hat the answer is 5		
	$22 - 10 + 8 \div 4$				
	A. $22 - (10 + 8) \div 4$ C. $(22 - 10 + 8) \div 4$				
	B. (22 − 10) + 8 ÷ 4	4	D. 22 – 10 + (8 ÷	4)	
	Working out:				

7.	Calculate	836	× 45	
	A. 37620	B. 37520	C. 37420	D. 37610
	Working out:			
8.	Which statement	is true?		
	A. 24 × 70 = 48 >	< 35	C. 24 × 70 = 12 ×	× 35
	B. 24 × 70 = 48 ×	46	D. 24 × 70 = 48	× 140
	Working out:			
9.	A room measures Isabelle wants to t What is the length will be covered?	8m by 20m. tile the floor with s n of the largest tile	square tiles. she can use so tha	t all of the floor
	A. 2m	B. 3m	C. 4m	D. 5m
	Working out:			

10	Sarah has these d	igit cards:		
		5 2	4	
	She makes a 2-dig She multiplies the Her answer is a m	git number and a 1 em together. Jultiple of 3.	-digit number usinរ្	g all the cards.
	Which of the follo	owing could NOT b	e a possible answe	r?
	A. 25 × 4	B. 42 × 5	C. 54 × 2	D. 24 × 5
	Working out:			
11				
•				
	Α.	В.	С.	D.
	Working out:			
12				

•	What fraction is half-way between and ?					
	Α.	В.	C.	D.		
	Working out:					
13	A pack of 15 pens Pens are the same What is the correc	cost £4.65. e value if they are ct calculation to w	bought individually ork out the cost of	19 pens?		
	A. (4.65 × 15) ÷ 1	9	C. (4.65 ÷ 15) × 1	9		
	B. (15 ÷ 4.65) × 1	9	D. (15 ÷ 4.65) ÷ 1	.9		
	Working out:					
14	I am thinking of a I multiply it by 4 a My solution is 23. What is my numb	number. Ind add 3 to it. er?				
	A. 5	B. 80	C. 6.5	D. 8.75		
	Working out:					
15	A hexagon is worth 6 points.					

	A square is worth 4 points.				
	How much is a triangle worth?				
		• = •	•		
	A. Can't tell	B. 1	C. 2	D. 4	
	Working out:				
16	Here is a pattern made from grey and white tiles				
	Shape 1	Shape 2	Shape 3		
	A shape in the pat How many white t	tern has 28 grey ti tiles does it have?	les.		
	, A 29	D 1F	C 14		
	Working out:	D. 13	C. 14	U. 3	
17	This shape is mad	e up of 3 identical	rectangles.		

	What is the perim	8 m 1 3 m eter of the shape?		
	A. 50 m	B. 66 m	C. 72 m	D. 54 m
	Working out:			
	The shape shown three identical cop shapes below, wit Which smaller sha	on the right was m pies of one of the s hout gaps or overl ape was used?	nade from smaller aps.	
	A.	B.	C.	D.
10	Working out:			



SECTION B: PROBLEM-SOLVING QUESTIONS

This section contains 3 questions.

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

What is the smallest possible difference between two different ninedigit numbers, each of which includes all of the digits 1 to 9?

For example the two numbers could be: 123456789 and 987654321

3.

In the expression below:

1 🗆 2 🗆 3 🗆 4

each \Box is to be replaced by either + or ×.

What is the largest value of all the expressions that can be obtained in this way?

TEST COMPLETE

NOW GO BACK AND CHECK YOUR WORK CAREFULLY