

11+ ENTRANCE TEST 2020

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:

Α	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.

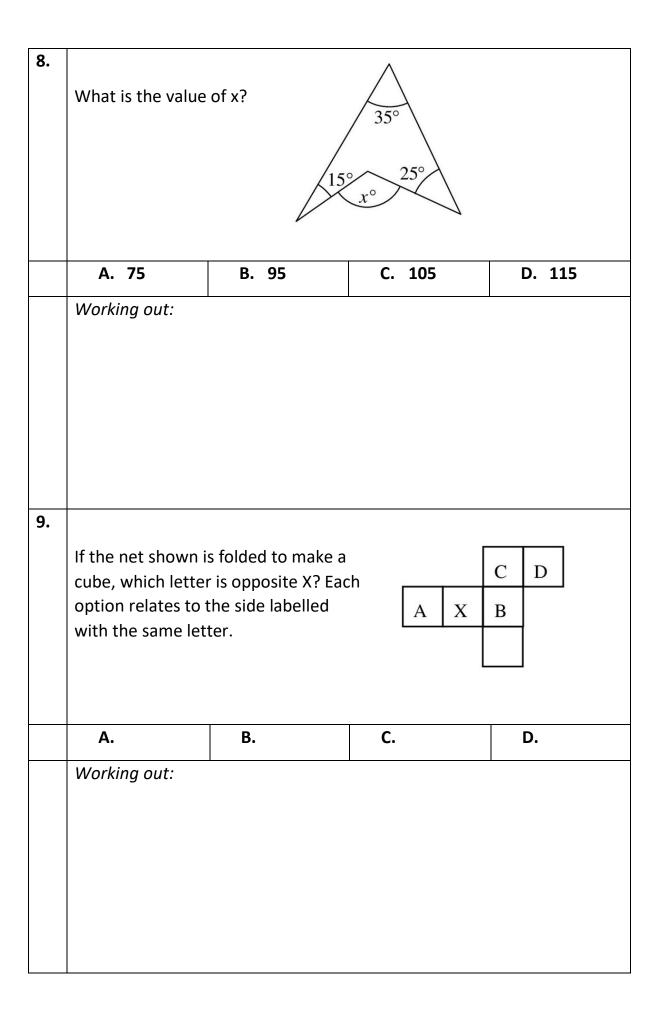
SECTION A: MULTIPLE CHOICE QUESTIONS

This section contains 20 questions.

1.									
	What is half of 1.01?								
	A. 0.55	B. 0.505	C. 0.5005	D. 0.055					
	Working out:								
2.									
	What is 2002 × 5?								
	A. 10 010	B. 100 010	C. 100 100	D. 10 100					
	Working out:								
3.									
	What is the remai	nder when 7 000 0	10 is divided by 7?						
	A. 1	B. 2	C. 3	D. 4					
	Working out:								

4.	Today, the sun rose at Greenwich at 6:45am and will set 12 hours and 44 minutes later. At what time will the sun set at Greenwich today?								
	A. 6:29pm	B. 7:29pm	C. 7:39pm	D. 9:29pm					
	Working out:								
5.	What is the value o	f 6002 – 2006?							
	A. 3994	В. 3996	C. 4004	D. 4006					
	Working out:								

6.	What	number is twe	enty-on	e less than six	kty thou	ısand?		
	Α.	59 979	В.	59 981	C.	40 001	D.	39 000
		ng out:						
7.	What	is 2010 + (+20	10) + (-	-2010) – (+20	10) – (–	2010)?		
	A. 0	(B. 20)10	C. 4	020	D. 6030)
	Worki	ng out:						

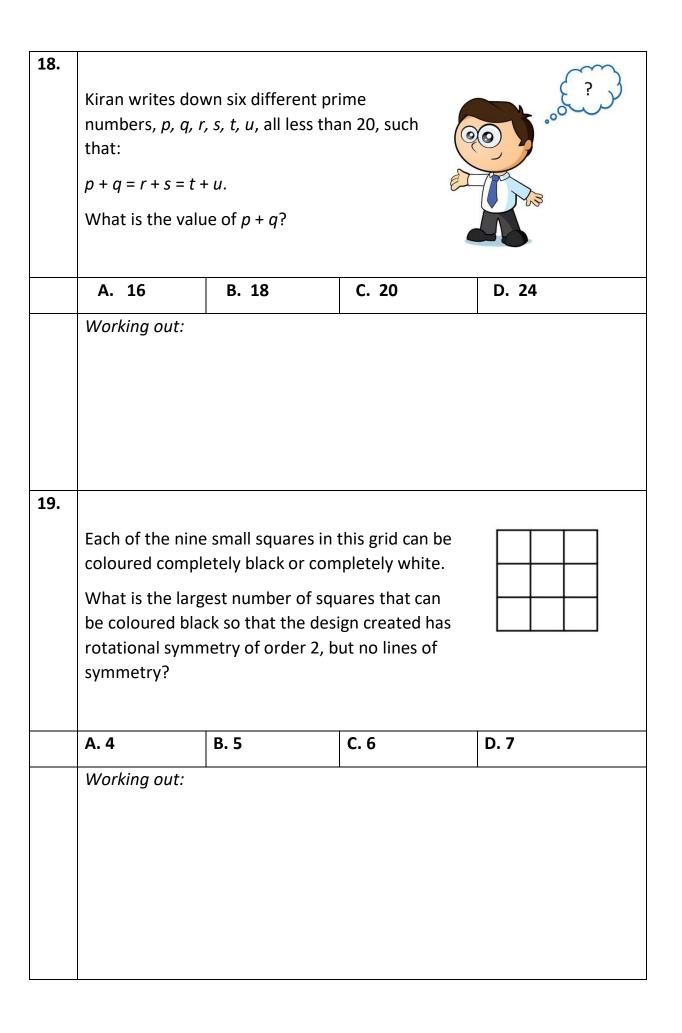


10.							
	A transport company's vans each carry a maximum load of 12 tonnes. A						
	firm needs to deli		weighing 5 tonnes	. How many van			
	A. 9	B. 10	C. 11	D. 12			
		В. 10	C. 11	D. 12			
	Working out:						
11.							
	Tommy Thomas's	tankard holds 480	Oml when it is one o	quarter empty.			
	How much does it	t hold when it is or	ne quarter full?				
	A. 120 ml	B. 160 ml	C. 960 ml	D. 1440 ml			
	Working out:	l	1				

12.						
	In a group of 48 children, the ratio of boys to girls is 3:5.					
	How many boys m	nust join the gro	up to make the ratio	of boys to girls		
	5:3?					
	A. 40	B. 32	C. 24	D. 8		
	Working out:					
13.						
	Which of the follo	wing statements	s is false?			
		B statee				
	A. 3 + 5 × 4 = 2)2	B. 20 – 5 × 4	- 0		
	C. 12 – 5 × 2 =		D. 3 + 6 × 4 =	36		
	Working out:					

14.							
	If the following fractions are ordered in increasing order of size, which						
	one would be sec	ona?					
	. 1	3	4	5			
	A. $\frac{1}{2}$	B. $\frac{3}{5}$	C. $\frac{4}{7}$	D. $\frac{5}{9}$			
	Working out:						
15.							
			n after the first thre e first three terms a				
		term to exceed 100		3, 0, 2.			
	A. 12 th term	B. 13 th term	C. 14 th term	D. 15 th term			
	Working out:						

16.	In the figure shown, each line joining two							
	numbers is to be labelled with the sum of the two numbers that are at its end points.							
	How many of the labels are multiples of 3?							
	A. 10		B. 8					
	C. 7		D. 6					
	Working out:							
17.	The shape to the up of three rect measuring 3cm	angles, each by 1cm.		 				
		meter of the shap						
	A. 16cm	B. 18cm	C. 24cm	D. More information needed				
	Working out:							



20.	the edges of the	anded at point P o	not travel along on	Q If it travels only along the edge more than et from P to Q?
	A. 1	B. 2	C. 3	D. 4
	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.

The two-digit by two-digit multiplication below has lots of gaps, but most of them can be filled in by logic (not by guesswork).

Which digit must go in the * position?

2.	A square is divided into three identical rectangles. The middle rectangle is removed and replaced on the side of the original square to form an octagon as shown.	

