CSSE Mock Paper 3 Maths



First Name:
Last Name:
Primary School:
Date of Birth:
Today's Date:

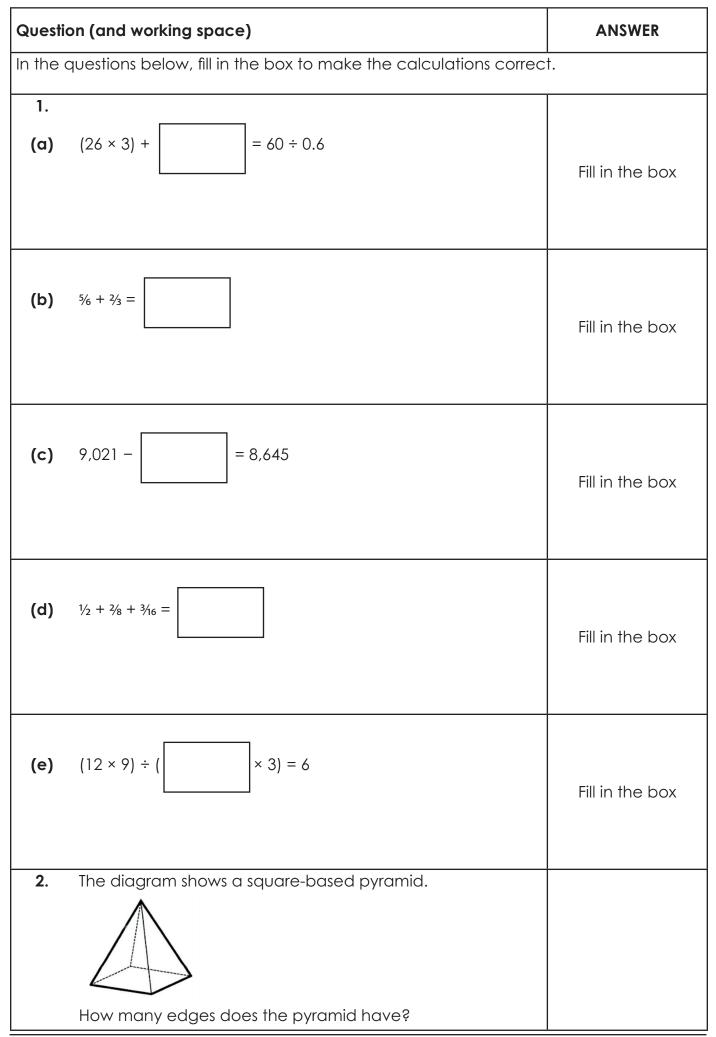
DO NOT OPEN THIS PAPER UNTIL INSTRUCTED TO DO SO.

11 Plus Essex CSSE – Maths

Read the instructions carefully.

- 1. Do not open this booklet until you are told to do so.
- 2. You may work the questions out in your head, or by working out on the white area around the question.
- 3. Work as quickly and carefully as you can.
- 4. Make any alterations to your answers **clearly**. You will not lose marks for crossing out.
- 5. You will have <u>60 minutes</u> to do this test. If you find you cannot do a question, do not waste time on it, but go on to the next one.
- 6. Once the test has begun, you should not ask about questions in the test.
- 7. The use of electronic calculators of any description (including calculator

watches) is **NOT** permitted.



est	tion (and working space)	ANSWER
3.	What is the product of 12 and 8.5?	
4.	A headteacher is arranging for the children to go to th theatre. They will hire minibuses to take the children to	
	theatre. Each bus takes 16 children. There are 150 child in total. How many buses will the school need to take o children to the theatre?	dren
5.	Calculate 23.6 + 14.9 =	
6.	Jack thinks of a number. When he multiplies it by 17, he 153. What was the original number?	e gets
7.	Use the graph below to answer the following questions	5.
	A graph to show average time to run 1k	ſm
	7.4 5.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	
	7 6.8 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4	
	5.4	
	1 2 3 4 5 Week	6
a)	What was the average running time in week 4?	
		minutes

Questi	on (and working space)	ANSWER
(b)	How many weeks had an average time less than 6.7 minutes?	weeks
(c)	The graph shows a trend of the average running time decreasing each week. Which week is this not the case?	
(d)	Which two weeks had the same average running time?	
(e)	What is the difference in average time from week 1 to week 6?	minutes
8.	Work out the original numbers.	
(a)	Layla thinks of a number. When she subtracts 28 from it, she gets 65. What was the original number?	
(b)	Amir thinks of a number. When he divides it by 6, he gets 14. What was the original number?	
(c)	Sofia thinks of a number. She multiplies it by 4, then adds 19. Her final answer is 75. What was the original number?	
9.	$(4X)^3 = 512$	
	What is the value of X?	
10.	Jane is watching birds play in her garden. She noted that 3 out of 7 were pigeons. She recorded 42 birds in total.	
	How many birds were not pigeons?	

Question (and working space)	ANSWER
 A square of area 49cm², a square of perimeter 20cm square of area 9cm² are positioned next to each oth shown below. What is the perimeter of the new shape formed? 	
12. What number is 7 less than half of 7 million?	
13. What is the product of the first three prime numbers?	
14. The hexagon is made up of 6 identical triangles. 8cm 6cm 6cm What is the area of the hexagon?	Cm²

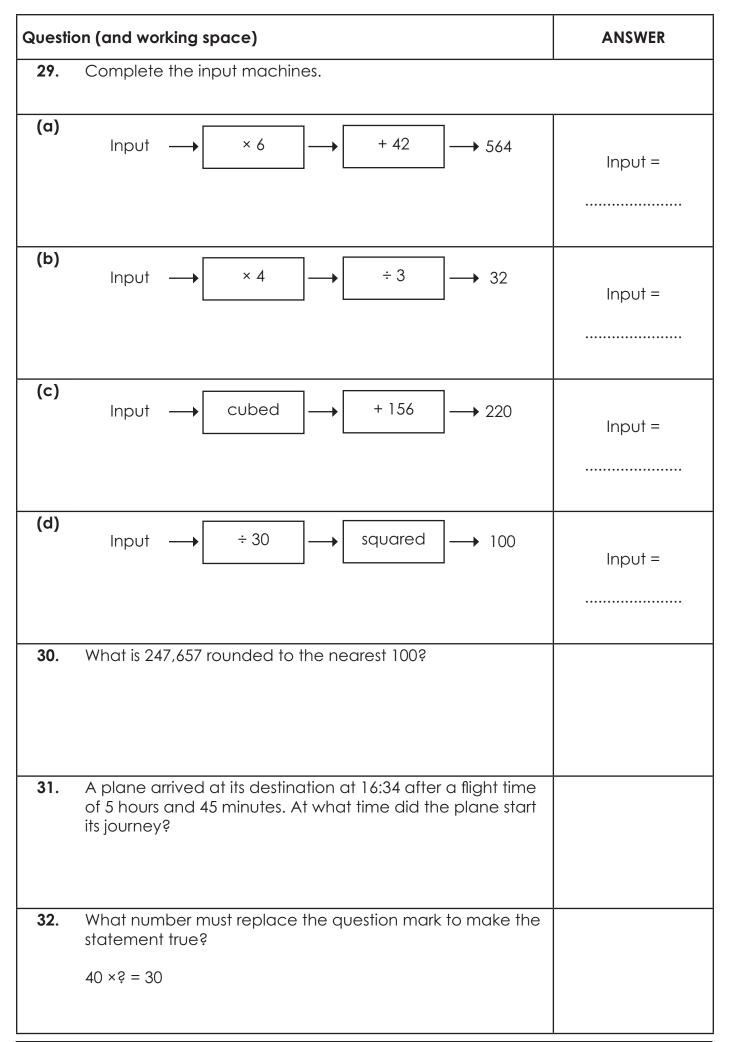
Questic	on (anc	l worki	ice)	ANSWER	
15.	lt take	es 900c	cm³ of t	fuel to travel 15km.	
(a)	How f	ar car	the co	ar travel on 3,000cm³ of petrol?	 km
(b)	How r	nuch f	uel in l	itres is needed to travel 90km?	
					litres
16.				e, each row, column and diagonal must a number that should be in place of the que	
(a)	13	6	11		
	8				
	9		Ś		
(b)	11				
	6	Ś	10		
	7		5		

Questi	on (and working sp	ace)			ANSWER								
17.	A and B are whole A rounded to the B rounded to the	nearest 10 give		·									
(a)	What is the largest possible value of A?												
(b)	What is the smallest possible value of B?												
(c)	What is the larges	t possible value	e of A + B?										
(d)	What is the smalle	est possible valu	e of A - B?										
18.	This is a coach tim	netable.		I									
	Explore Coaches	– Daily Timetal	ble (Monday –	Friday)									
		Coach A	Coach B	Coach C	Coach D								
	Parkside	08:15	09:30	10:45	11:05								
	Riverview	08:45	10:00	11:15	11:37								
	Hilltop	09:10	10:30	11:40	12:15								
	Market Square	09:45	11:05	12:20	12:56								
	·				<u>.</u>								
(a)	Liam wants to trav	el from Rivervia	aw to Market S	nuare in the									
(u)	shortest possible ti												

Questic	on (and working space)	ANSWER
(b)	If Coach D is delayed at Parkside by 7 minutes and delayed at Riverview by a further 6 minutes, what time will it arrive at Hilltop? How long does Coach C take to travel from Parkside to	
(C)	Market Square?	
19.	Amira completes a spelling test once a week.	
	Her average score over 5 weeks is 16.	
(a)	What is the total of all her scores from the 5 weeks?	
(b)	In week 6, she scores 10. What is her new average score over 6 weeks?	
(c)	If Amira wants her average after 7 weeks to be 17, what must she score in Week 7?	

Questic	on (and w	orking sp	ace)					ANS	NER		
20.		•		cale 1cm t is its real	n = 10m. A I length?	A wall is 3	.5cm	m			
21.		angled trid at is the th	ther of	⁰							
22.			-		of juice is re left in t	•	nto a		ml		
23.	A square side in m		area of 8	lcm². Wh	at is the l	ength of	one	mm			
24.	A car tro miles pe		n in 3 hou	urs. What	is its aver	age spee	ed in	mph			
25.	A teach 20 marks		led the re	esults of 9	children i	n a math	is test. T	he test was	out of		
	Child 1 8	Child 2	Child 3 7	Child 4	Child 5 3	Child 6 10	Child	7 Child 8 8	Child 9 5		
(a)	What is t	he averc	ige result	for the m	naths test?	2					
(b)	What is t	he range	of score	S <u>Ś</u>							

Questi	on (and working s	pace)				ANSWER
26.	A security key po	ad display	/s these di	gits:		
	2 4					
	6 8					
		is create	d using a	ov two of th	oso diaits For	example, 24 or 82.
	C		0	,		
(a)	How many code twice?	s are pos	sible if the	same digit	can be used	
(b)	How many code used twice?	es are pos	sible if the	same digit	cannot be	
(c)	Another security	key pad	has this sc	reen:		
	A B C					
	2 3 4					
	5 6 7					
	If a code on this	screen re	equires a le	etter followe	d by a	
	single digit numb	per, how r	nany cod	es are possik	ole?	
27.	Fahima has twer 10-pence pieces	,			,	
	to £15?	5 0003 1 0			e nei money	
28.	Five bakers each			•	•	
	times in minutes table below.	(ini) ana /	OF SECON	us (s) die shi		
	Baker 1 Ba	ker 2	Baker 3	Baker 4	Baker 5	
		n 47 s	109 s	1 m 36 s	1.25 m	
	Who bakes their	cupcaka	s the facto			
	WIND DUKES INEI	CUPCUKE		7 I C		



Questi	on (and working space)	ANSWER
33.	10 friends share 5 pizzas between them. If each pizza is cut into 6 pieces, how many pieces does each friend receieve?	
34.	What number comes next in the sequence?	
	4, 6, 10, 18, 34, ?	
35.	If 3/5 of a number is equal to 24, what is half of the number?	

END OF TEST

Work	Working Out Space														

Work	Working Out Space														

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