## **CSSE Mock Paper 2 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

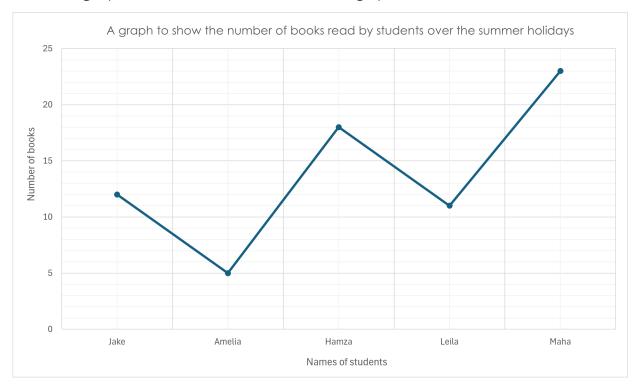
## Read the instructions carefully.

- 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.
- The use of electronic calculators of any description (including calculator watches) is **NOT** permitted.

Questi	on (and working space)	ANSWER
In the	questions below, fill in the box to make the calculations correct	
1. (a)	64 ÷ = 0.4 × 20	Fill in the box
(b)	57 + = 43 + 26 + 19	Fill in the box
(c)	9 ×	Fill in the box
(d)	- 75 = 132 ÷ 3	Fill in the box
(e)	(420 ÷ 4) × 3 = (160 × ) - 5	Fill in the box
2.	A room is 4cm long on a plan. The scale is 1cm to 2m. What is the real length of the room?	

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\uesti	on (and working space)	ANSWER
3.	A spinner has 10 equal sections numbered 1 –10. What is the probability of landing on a number less than 5? Give your answer as a fraction.	
4.	A dice is rolled 90 times. How many times would you expect a 6?	
5.	A rectangle has sides of 12cm and 9cm. What is the area of the rectangle?	 Cm²
6.	A triangle has a base of 10cm and height of 7cm. What is the area of the triangle?	 cm²
7.	Use the graph below to answer the following questions.	



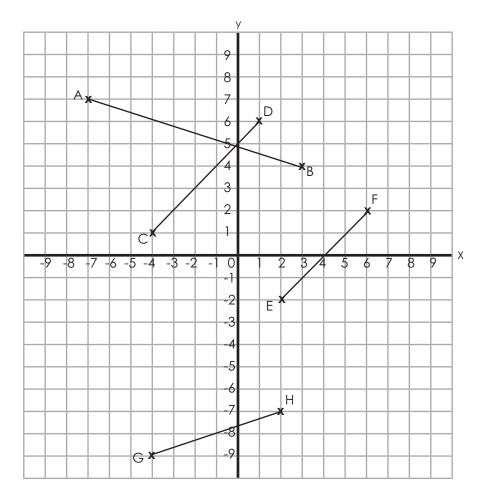
How many books were read by the two students who read the most? (a)

Questi	on (and working space)	ANSWER
(b)	How many more books did Hamza read than Amelia?	
(c)	Which student read the fewest books?	
(d)	How many books were read in total?	
(e)	There are 6 weeks in the summer holidays. Which student read three times the number books, as weeks in the wholidays?	
8.	What is the value of x in the following equations?	
(a)	$(x-3) \times 3^2 = 54$	
(b)	$300 - x = (4^2)^2$	
(c)	x ÷ 15 = 540 ÷ 60	
9.	Temperatures in a city fell from 3°C to –6°c overnight. What was the change in temperature?	°C
10.	In a number sequence, each term increases by 4. The second term is 5. What is the 8th term?	

Questi	on (and working space)	ANSWER
11.	In a poll of 500 children, 425 said they liked chocolate. What percentage did NOT like chocolate?	
12.	Jake eats % of a pizza. Ellie eats 1/3. What fraction of the pizza is eaten in total? Give your answer in its simplest form.	
13.	Giorgio has ¾ of a litre of juice. He shares the juice equally between four glasses. How much juice is in each glass?	ml
14.	Three toy cars and two toy trains are arranged in the following way on a playmat.  CTCTC is one way they can be ordered. CCTCT is another way they can be ordered, and so on.  How many different ways, including those already mentioned above, can the toys be ordered if the toy trains must never be next to each other?	

Questic	on (and	l worki	ng spo	ice)	ANSWER
15.	A box	of 25	packe	ts of crisps costs £6.75 and weighs 750g.	
(a)	What	is the o	cost of	9 packets of crisps?	
					£
(b)		empty weigh		reighs 25g, how much do 5 packets of	
	·	<u> </u>			g
16.				e, each row, column and diagonal must a number that should be in place of the que	
(a)					
	Ś		7		
	13	9	5		
		1			
(b)					
		1	11		
	5	9			
	7		٠		

17. On the grid below there are four lines with crosses marking the end points.



(a)	What are the coordinates of point C?	(	,	)	
(b)	What are the coordinates of the midpoint of the line EF?	(	,	)	
(c)	Which line is parallel to EF?				
(d)	Mark an X at coordinates (6,-2) and label this point I. Join the lines from E to F, F to I and I back to E to create a triangle. What is the area of this triangle in square units?				

Questi	on (and v	working space)				ANSWER
18.	Let A =	2 B = 3 C =	4 D = 5			
(a)	A <sup>2</sup> + B <sup>2</sup>	+ C <sup>2</sup> =				
(b)	(D × R3)	÷ (A + B)				
(b)	(U ^ b°)	· (A + b)				
(c)	(D³ × C	) - (A × B × C)				
19.		uns between five	•		etable belo	ow shows the
	Stop	Station Road	High Street	Central Park	Library	Green Lane
	Bus 1	07:15	07:25	07:37	07:45	07:52
	Bus 2	07:45	07:55	08:07	08:15	08:22
	Bus 3	08:15	08:25	08:37	08:45	08:52
	Bus 4	08:45	08:55	09:07	09:15	09:22
(a)	How lor the Libr	ng does it take I ary?	Bus 2 to travel	from the High	Street to	
(b)		catches Bus 3 a I Park for 9 minu Lane?		-		
(c)		needs to be at o she catch from				

QUESII	ion (and working sp	ace)		ANSWER	
20.	What is the highes	st common factor	of 16 and 28?		
21.	What is the missing	g prime tactor of 1	54?		
	2 × 7 × ?				
22.	What is the next n	nultiple of 6 in this	list: 6, 12, 18, 24, 30, ?		
23.	What is the lowest	t common multiple	of 4 and 68		
25.	What is the lowest	Common momple	e or 4 and ov		
24.	What is the next n	nultiple of 13 in this	s list: 13, 26, 39, 52, ?		
25.	A bakery sells the	following items			
		rene wing nerris.			
	A box of 6 cupcakes	Cookies	Tray of 4 brownies	Bag of 10 mini doughnuts	
			Tray of 4 brownies		
	cupcakes	Cookies	_	doughnuts	
(a)	£2.40	Cookies 35p each	_	£1.80	
(a)	£2.40	Cookies 35p each	£3.20	£1.80	
(a)	£2.40	Cookies 35p each	£3.20	£1.80	
(a)	£2.40	Cookies  35p each  f 4 cookies, 12 cup	£3.20	£1.80	
	£2.40  What is the cost o	Cookies  35p each  f 4 cookies, 12 cup	£3.20	£1.80	

esti	on (and working spac	ce)		ANSWER
6.	A sequence of frog	s in a pond during	a day, looks like this:	1
	10:00	10:10	10:20	10:30
	1 frog	2 frogs	3 frogs	4 frogs
a)	At what time will the	ere be 9 frogs in the	e pond?	
b)	How many frogs wil	I be in the pond at	12:50?	
c)	What time will there there at 11:00?	e be double the nui	mber of frogs that	
7.	What is ⅓ of 2 ½?			
8.		th of 6 metres, and	prism with a length a depth of 2 metres. oic	
	2m³		6m³	m
	•	12 m³		

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Questi	on (and working space)	ANSWER
29.	Complete the input machines.	
(a)	Input $\longrightarrow$ $\times 5$ $\longrightarrow$ $+42$ $\longrightarrow$ 102	Input =
(b)	Input $\rightarrow$ $\div 3$ $\rightarrow$ $-47$ $\rightarrow$ 74	Input =
(c)	Input $\longrightarrow$ cubed $\longrightarrow$ ×4 $\longrightarrow$ 500	Input = 
(d)	Input $\longrightarrow$ $+45$ $\rightarrow$ $\div 9$ $\longrightarrow$ 9	Input = 
30.	Sophie wants to buy 3 books. The first book costs two pounds less that the second book, and the third book costs a pound more that the first book. The second book costs £8. How much does the third book cost?	£
31.	A train travels at a speed of 60 km/h. How far will it travel in 3.5 hours?	km
32.	A piece of ribbon is 5 metres long. If it is cut into pieces that are each 25 cm long, how many pieces can be made?	

nk of a number. uble my number and then add 25. final result is 93. at was the number I started with?	
final result is 93. at was the number I started with?	
at was the number I started with?	
f a number N is 75. What is ¼ of N?	
, , , , , , , , , , , , , , , , , , ,	
	te has 3 times as many apples as Bob. Together, they ve 48 apples. How many apples does Bob have?

## **END OF TEST**

Working Out Space														

Working Out Space														

