

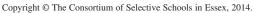
MATHEMATICS FAMILIARISATION PRACTICE PAPER FOR FIRST USE FOR 2015 ENTRY

Name:
Candidate Number:
Primary School:
Boy or Girl:
Date of Birth:
Today's Date:
Test Taken At:

READ THE FOLLOWING 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 writing on the white area around the question.
- 3. Work as quickly and as 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 the 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 <u>NOT</u> permitted.

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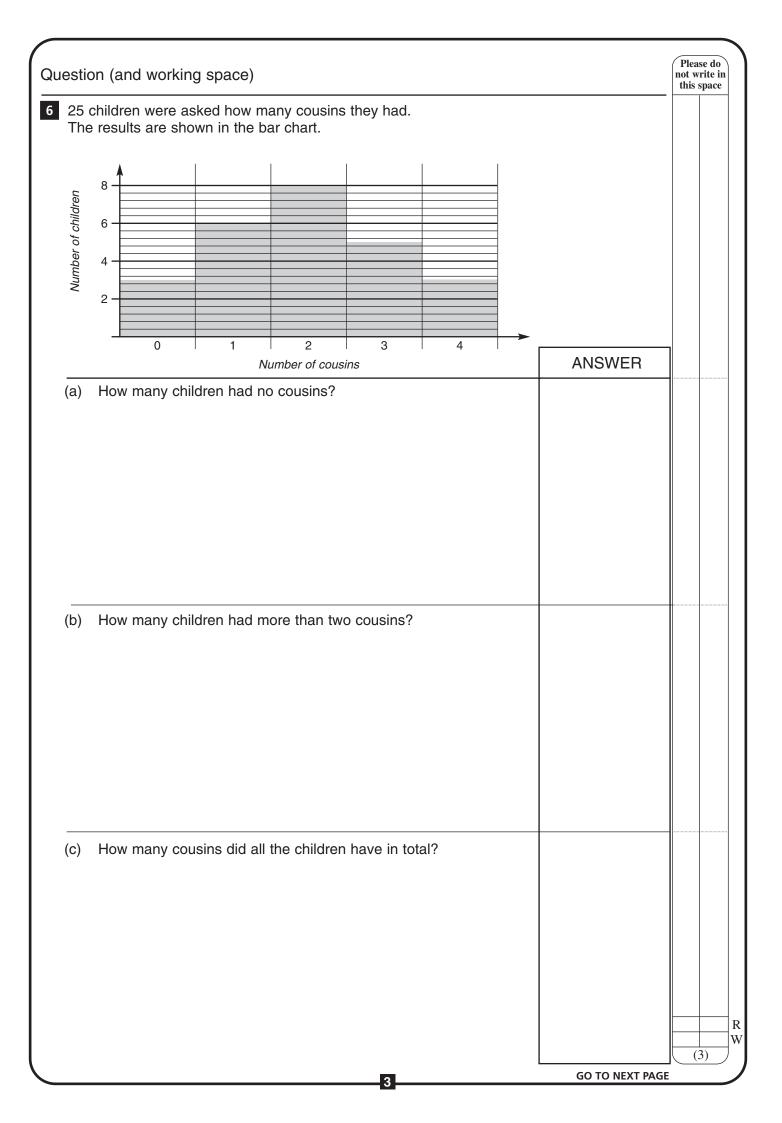


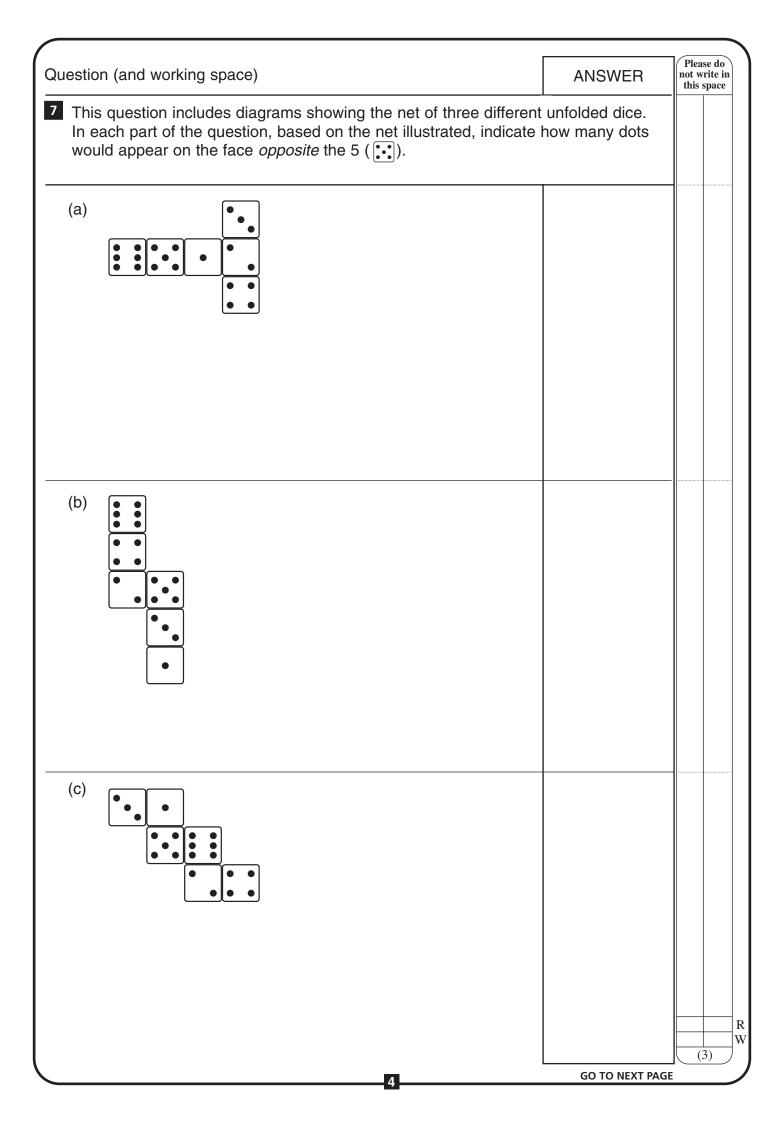
NOT TO BE FILLED IN BY PUPIL			
FILLE		ORE	
PAGE	R	W	
1 (8)			
2 (6)			
3 (3)			
4 (3)			
5 (5)			
6 (3)			
7 (5)			
8 (5)			
9 (4)			
10 (5)			
11 (4)			
12 (3)			
13 (4)			
14 (2)			
TOTAL (60)			
INITIALS OF MARKER(S)			

You have sixty minutes to complete this paper. Do your working out in the spaces on the paper.

Question (and working space)	ANSWER	Please do not write in this space	ı
1 (a) Calculate: 793 + 1321			
(b) Add 16-03 and 9-48			
2 (a) Calculate: 1572 – 829			
(b) Find the difference between 8-38 and 6-94			
3 (a) Calculate: 37 x 140			
(b) What is the result of 11 multiplied by 4.02?			
4 (a) Calculate: 195 ÷ 15			
(b) Divide 14 by 0·2			R
	GO TO NEXT PA	(8)	J

uestion (and working space)	ANSWER	Please do not write in this space
Each of the following calculations is incomplete. This is indicated mark. For each part of the question, state the value of the missing the state of the missing calculations is incomplete. This is indicated as a state of the missing calculations is incomplete. This is indicated as a state of the missing calculations is incomplete. This is indicated as a state of the calculations is incomplete. This is indicated as a state of the calculations is incomplete. This is indicated as a state of the calculations is incomplete. This is indicated as a state of the calculations is incomplete. This is indicated as a state of the calculation is incomplete. This is indicated as a state of the calculation is incomplete. The calculation is incomplete. The calculation is incomplete as a state of the calculation is incomplete. The calculation is incomplete. The calculation is incomplete as a state of the calculation is incomplete. The calculation is incomplete as a state of the calculation is incomplete. The calculation is incomplete as a state of the calculation is incomplete. The calculation is incomplete as a state of the calculation is incomplete. The calculation is incomplete as a state of the calculation is incomplete. The calculation is incomplete as a state of the calculation is incomplete as a state of the calculation is incomplete. The calculation is incomplete as a state of the calculation is incomplete as a state of the calculation is incomplete. The calculation is incomplete as a state of the calculation is incomplete as a state of the calculation is incomplete. The calculation is incomplete as a state of the calculation is incomplete. The calculation is incomplete as a state of the calculation is incomplete as a state of the calculation is incomplete. The calculation is incomplete as a state of the calculation is incomplete as a state of the calculation is incomplete. The calculation is incomplete as a state of the calculation is incomplete as a state of the calculation is incomplete. The calculation is incomplete		
(a) 56 + 975 = 10?1	? =	
(b) 0·35 + 1·?7 = 2·22	? =	
(c) 9?5 – 128 = 777	? =	
(d) $? - 7 = -2$? =	
(e) 13 x 1?1 = 1703	? =	
(f) $1.1 \div 2 = 0.75$? =	
		(6)
2	GO TO NEXT PA	





uestion (and working space)	ANSWER	Please do not write in this space
In each of the following calculations there is an error, which can be changing one digit to the number 7. In each case identify that dig	e corrected by iit.	
(a) 98 – 65 = 32 Which digit needs to be replaced with a 7 ?		
(b) 39 + 48 + 50 = 167 Which digit needs to be replaced with a 7 ?		
(c) 734 + (8 x 26) = 950 Which digit needs to be replaced with a 7 ?		
This is a sketch drawing of Kirin's office, which needs new carpet.		
7m 3m 2m		
(a) What is the total area of the floor of the office?	Γ	
(a) What is the total area of the moof of the office:		
	sq n	า
(b) How many carpet tiles, each 50cm x 50cm, would Kirin need to cover the floor?		
	GO TO NEXT PAG	(5)

uestion (and working space)	ANSWER	Please do not write this space			
In this question letters of the alphabet are assigned number values: $A=1,\ B=2,\ C=3,\ D=4,\$					
The sum total of a word is created by adding the value of the letters.					
For example: the sum total of 'HAD' = 8 + 1 + 4 = 13					
(a) What is the sum total of the word 'TANK'?					
(b) List the following words in order of their sum total, starting with the lowest:	Lowest				
DOG CATS FISH BIRD					
	Highest				
(c) Which single letter has the same value as the result of dividing the for 'JET' by the sum total of 'BAD'?	ne sum total				
JET ÷ BAD =					
JET - DAD =					

(3)

Question (and working space)		Please do not write in this space
A class of thirty pupils were each asked about whether they had any brothers or any sisters. The results are shown in the Venn diagram.		
sisters 8 11 6		
brothers	ANSWER	
(a) How many pupils had <i>only</i> sisters?		
(b) How many pupils had a brother?		
(c) How many pupils had no brothers or sisters?		
(d) Another class of thirty pupils were asked the same question 15 had a brother, 12 had a sister and 8 had no brothers or Complete the Venn diagram below to show this information sisters Sisters	sisters.	
	GO TO NEXT PAGE	(5)

Question (and workin	g space)	ANSWER	Please do not write in this space
Pasta Salad Baguette Apple Fruit Crumble Curry and Rice Mr. Sanders wants t			
(b) Andy has 5m	ams are there in 2.5kg? 35cm of tape. He uses 243cm for wrapping many cm of tape does he have left over?		
He has completed n 5 19	g a table of values for the formula $2(n+1)$. If the first row of the table. $2(n+1)$ 12 80 e with the two missing values.		R

GO TO NEXT PAGE

Que	estio	n (and working space)			ANSWER	Please do not write in this space
15		grid below is a magic squa t add to 1⋅5.	re. Every row, column an	d diagonal		
	Wha	at value must be placed in the	ne shaded box?			
				0.2		
			0.5			
			0.1			
16		question concerns the num		med starting at	'0', then	_
		ng 1, subtracting 2, adding first four terms of the seque				
	(a)	What is the sixth (6th) term				-
	(b)	What is the eleventh (11th) term in the sequence?			-
	(c)	What is the hundredth (10	Oth) term in the sequence	e?		
						(4)
			g		GO TO NEXT PAG	

Question (and working space)	Please do not write in this space
This question involves five number cards: 1	
+ X = 33 (a) Which whole number less than twenty is <i>both</i> an even number <i>and</i> a prime number?	ANSWER
(b) 4 is a square number and also an even number. How many other whole numbers less than fifty are even square numbers?	
(c) Which three prime numbers multiply together to make 154?	(5)

estion (and working space)		Please do not write i this space
The pie chart shows how 90 Year 7 pupils spent their time last night. Homework Games Youth Club		
	ANSWER	
(a) How many pupils were doing homework?		
(b) 10 pupils went to the youth club. What is the size of the angle for that sector of the chart?		
Four boys played in a cricket match. Their batting scores were 26, 13,	4 and 19.	
(a) What was the average (mean) score?		
(b) Another boy, Sam, batted next. The average (mean) score for the five boys is now 16. What was Sam's score?		
	GO TO NEXT PA	(4)

Question (and working space)	ANSWER	Please do not write i this space				
In this question letters of the alphabet are assigned number values: $A = 1$, $B = 2$, $C = 3$, $D = 4$,						
The product value of a word is created by multiplying the value letters.	The product value of a word is created by multiplying the value of the letters.					
For example: the product value of 'HEAD' = 8 x 5 x 1 x 4 = 160						
(a) What is the product value of the word 'YES'?						
(b) List the following words in order of their product value, starting with the lowest:	Lowest	_				
DOG CATS FISH BIRD						
	Highest					
(c) Which three letter English word can be inserted to complete the su (adding with the product value of 'BAG' to make the product value		-				
BAG + = GALA						
- A TOTAL TO						
		(3)				

GO TO NEXT PAGE

uestion (and working space)	ANSWER	Please do not write i this space
Four sided shapes are known as quadrilaterals. There are several quadrilateral including: square, oblong, parallelogram, kite, rhomb Thinking about these different types, decide whether the following true for all , some or no quadrilaterals.	us and trapezium.	
(a) "All four sides are the same length." Is this statement true for all, some or no quadrilaterals?		
(b) "All four angles are acute." Is this statement true for all, some or no quadrilaterals?		
(c) "Two of the sides are parallel." Is this statement true for all , some or no quadrilaterals?		
(d) "The four angles add together to make 360°." Is this statement true for all, some or no quadrilaterals?		
	GO TO NEXT PAGI	(4)

Question (and working space)		Please do not write in this space	
	ram, colouring <i>only two</i> more vertical line of symmetry		
In the grid below each n average (mean) of the n What value must be place	umber in the middle of a row or umbers on either side of it. ed in the shaded box?	ANSWER column is the	
1.4	2.2		
	ST (You should have con		



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