HIGHGATE

Mathematics 11+ Sample Paper C

Read each question carefully before attempting to answer it. Remember to show all your working clearly.

Write your answers in the boxes given.

If you cannot answer part of a question, move onto the next part. However, you must NOT turn to the next page until you are told to do so.

If you have finished a question spend any spare time checking your answers on that page: you will not be allowed to go back to that question later.

Do not worry if you find part of a question difficult: miss it out and try the next one.

The exam will last for approximately 45 minutes.



Remember to include your working to show us how you find your answers.

Some	vegetables	are being	sold at a	a market.

	3				
a)	Delon buys 17 carrots an	•			
	How much did Delon spe	nd in total?			
			ſ		
		Delon	spends	£	
b)	Potatoes are only sold in Stanley has £3.20.	sacks of 12 potatoes. One	of these	sacks c	osts 56p
	How many potatoes can left over?	Stanley buy, and how mucl	n money o	does he	have
	Stanley buys	potatoes, and has		р	left over
c)	Zane buys 16 red pepper	rs, and receives £8.32 char	nge from a	a £20 no	ote.
	What is the price of a per	oper?			

Each red pepper costs	pence

	Asha has of her vegetables remaining.				
	What fraction of her original stock does she have left to sell on Wednesday?				
e)	Asha sells vegetables at the market. On Monday she sold half of her vegetables. On Tuesday she sold a third of the vegetables she had left.				
	8 giant mushrooms cost				
	What is the cost of 8 giant mushrooms?				
d)	5 giant mushrooms cost the same as 3 cucumbers. Marvin buys 12 cucumbers for £3.60.				

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Mr Smith is making patterns out of matchsticks. His patterns form a sequence.

Pattern 1	Pattern 2	Pattern 3	Pattern 4
3 matches	5 matches	7 matches	9 matches
a) How ma	any matchsticks are ne	eded to make Pattern 7?	
b) Which F	Pattern is made from 2°	17 matchsticks?	matches
,			
			Pattern
Mr Doyle is als	so making patterns out	of matchsticks.	
Pattern 1	Pattern 2	Pattern 3	Pattern 4
\Diamond			
4 matches	10 matches	16 matches	22 matches
c) Explain matchst		or Mr Doyle to make a pa	attern using 144

Reme	mber to include your working to show us how you find your answers.		
d)	Grange Hill School has the same number of pupils in each class, but there ar more classes in year 7 than in year 8.		
	Year 7 has 154 pupils, and year 8 has 110 pupils.		
	What is the largest number of pupils which could be in each class?		
	The largest possible number of pupils in a class is		
e)	A school teaches French and German. All 165 pupils in year 9 study at least one language. Some pupils study just French, others study just German, and some study both French and German.		
	In total 112 pupils study French, and 92 pupils study German. How many		
	pupils study only one language?		

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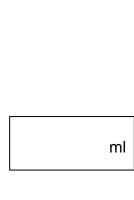
pupils.

Remember to include v	your working to show i	us how you find	your answers.

a)	Tanya mixes cranberry juice and lemonade to make a refreshing drink.		
	She uses 3 times more lemonade than cranberry juice to make the drink.		
	Tanya uses 759ml of lemonade.		
	How much of the drink does she make?		

b) A drink is made by mixing fruit juice with water.39ml of fruit juice is needed to make 600ml of the drink.

How much water is needed make 800ml of the drink?



ml

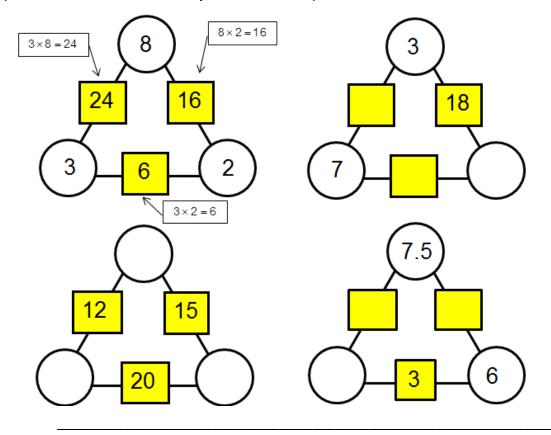
c) In a maths test pupils have to answer all 20 questions. 3 marks are awarded for each correct answer, but 1 mark is subtracted for each incorrect answer.

Bobby answers 4 more questions correctly than Tim, and between them they score 48 marks in total. How many questions did Tim answer correctly?



d) In the mathematics puzzles below, the numbers in the square boxes are found by multiplying the two numbers in the circles it is joined to together.

Fill in all of the missing numbers in both the circles and the squares. The first puzzle has been solved for you as an example.



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a)	Mr Rossi owns an ice cream van. Yesterday he had 140 customers. 35% of them be How many people bought a choc ice?	ought a choc ice.
		customers
b)	Today Mr Rossi has 430 customers, and 86 of the What percentage of today's customers bought an	
c)	Mr Rossi has a sale on fizzy drinks. He has reduced of cola now costs 98 pence. What did a can of cola cost before the sale?	red his prices by 30%. A can

d)	Tori bought 5 jelly worms and 7 sherbet dib-dabs for £3.37. Meera bought 5 jelly worms and 2 sherbet dib-dabs for £1.57				
	erbet dib-dab				
	cost?				
	A jelly worm costs	р	, a sherbet dib-dab costs	р	
e)	Mr Rossi is looking	at his monthly ac	counts.		
	Two fifths of his money was made from selling ice cream. The rest of his money came from selling sweets and from selling fizzy drinks. He made twice as much money from selling fizzy drinks than from sweets. He made £330 from selling fizzy drinks.				
	How much money	does he make in t	total?		
			Г		
			:	3	

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End of test