11+ Mathematics - Sample Paper.

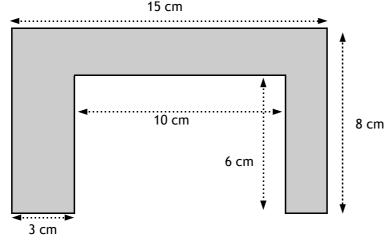
You have 35 minutes to complete this paper.

Q 1.	Lucy goes to a Holiday Club every weekday for five weeks during the holidays.
	She pays £0.60 each time she goes.

How much does she pay in total during the holiday?

£

Q 2.



What is the area of this shape?

cm ²	
CIII	

Q 3. Yvonne spends **x** pounds each day on her lunch at school.

She spends **y** pounds each week on a bus pass to get her to and from school

How much does Yvonne spend altogether in 6 weeks? Place a cross in the appropriate box.

- A. 30**y** + 30**x**
- B. $6\mathbf{X} + 6\mathbf{y}$
- C. 30y + 6x
- D. 6y + 42x
- E. 30**x** + 6**y**

Q 4. Mrs Whiting bought 144 "lucky bags" for the Brownies Christmas party. They come packed in boxes of 16.

How many boxes of "lucky bags" did Mrs Whiting buy?

Q 5.

Ī	9	М	
		10	
	13		

This is a magic square.

All the columns, rows and diagonals add up to 30.

Several numbers have been missed out.

What number should replace the letter M?

		۷٠	
Q 6.	In a local sweet shop there 360 boxes of Belgian Chocolates. 48 are given away as prizes in a special Valentine's prize drawer. 192 are sold to the public at £4.60 a box.		
	How many boxes remain unsold?		
Q 7.	Alexander's grandma is 5 times as old as Alexander was 3 years ago.		
	If Alexander's grandma is 60, how old is Alexander?		
Q 8.	This shape has been created using two <u>identical</u> isosceles triangles.		
Q 9.	Mr and Mrs Fitzgerald take their 3 children to a special pop concert. Tickets cost £7.00 each for adults. The price of a child's ticket is half that of an adult's.		
	How much does it cost the family to visit the theme park?		
Q 10.	This is Sandra's function machine.		
	? —— subtract 16 —— divide by 7 —— 6		
	What number did she start with?		
Q 11.	This spinner has an equal chance of landing on any of the numbers.		
	What is the chance that it will come to rest on a number that is a multiple of 6? 20 32 16 30 72 46		
	Write your answer as a fraction in its lowest possible terms.		

Q 12.	Find the missing number so that the equation balances.	
	8 x 9 - 16 = 7 x 5 +	
	0 X 9 - 10 = / X 3 +	
Q 13.	Colin has six 50 pence pieces, two 20 pence pieces, two ten pence pieces and five 5 pence pieces in her pocket.	
	How much money does he have in total? £	
Q 14.	Which one of the following numbers is a factor of 2, 5 and 6? Circle the appropriate answers.	
	20 35 40 55 60	
Q 15.	A box contains 2 blue pencils, 3 green pencils and 4 red pencils.	
	If I pick a pencil from the box at random (with my eyes shut), what is the probability that I will pick out a green one?	
	Circle the appropriate answer.	
	A. ¾ B. ⅓ C. ⅓ D. ¼ E. ¾	
Q 16.	Roger places some weights on an electronic scale. He needs to make a total of 5.5 kg. Which two of the weights below should he choose to make up the weight to the correct amount? Circle the two appropriate letters.	
	625g 750g 650g 400g 500g	
	A B C D E	
Q 17.	This half term Martin has taken 7 tables tests. Here are his results out of 10:	
	8 5 9 4 6 4 8	
	What was his <u>median</u> score?	
Q 18.	Calculate the following:	
	15000 ÷100 =	

4	
4	

Q 19. What fraction of a hour is 12 minutes? Write your answer in its lowest possible terms. 5 m Q 20. This is a floor plan of Mr Buchanan's classroom. 3 17m 3 m NOT TO 5m **SCALE** What is the total perimeter of the floor? _ m 15m Q 21. The ratio of flour to sugar in a cake is 7:4. If 200g of sugar was used to make the cake, how much flour was used? Q 22-23. Look at the Venn diagram below. It shows how many children in Mrs Thompson's class like chocolate, ice cream or both. 2 children like neither. There are 32 children in the class. Ice Cream Chocolate 16 2 If 26 children like chocolate and 20 like ice cream: Q 22. How many children in the class do not like chocolate? Q 23. How many children only like one flavour? Q 24. Smoked Salmon crisps cost 47p per packet. Sophie bought 5 packets for herself and her friends. How much change would Sophie get from a £5 note?

Q 25.	There are 12 sticks of "Minty Fresh" chewing gum in a pack.											
	How many packs could you make from 216 sticks of gum? packs											
Q 26.	The local book shop has a sale. Every item in the shop is reduced by 25%. Melanie buys a set of encyclopaedias. The set normally costs £30.00.											
	How much does Melanie have to pay for the books in the sale? £											
Q 27.	In the same book shop Melanie's little brother, Robert, bought a picture book for £1.50.											
	What was the price of the picture book BEFORE the sale started? £											
Q 28.	How many faces has a octagonal prism?											
	·											
Q 29 - 3	8											
Q 29.	What are the co-ordinates of the points at letter U and letter S? U,											
Q 30.	If you joined the points in alphabetical order, then back to S, what shape would you have drawn?											
You	are at the end of the test. If you have time, go back and check your work.	6										

11+ Mathematics Sample Paper. Answer Sheet

1.	2.		3.			4.			5.			6.			
	£12.00 []	72 cm ² []		Α	[]		9	[]		15	[]		140	[]
	£14.00 []	100 cm ² []		В	[]		8	[]		19	[]		135	[]
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Į	£18.00 []	60 cm ² []		Ε	[]		6	[]		13	[]		105	[]

7.		8.			9.			_	10.				11.			12.	_		_
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11	[]	7	0°	[]		£24.50	[]		72	[]		2/3	[]		31	[]	
12	2 []	3	5°	[]		£20.50	[]		54	[]		3/4	[]		27	[]	
14	1 []	4	0°	[]		£28.00	[]		66	[]		1/3	[]		25	[]	
13	B []	5	0°	[]		£26.50	[]		60	[]		2/6	[21	[]	

13.		14.				15.				16.				17.			18.			
	£3.75 []	20	[]	'	Α	[]		Α	[]		6	[]	15.00	[]
	£4.15 []	35	[]		В	[]		В	[]		7	[]	150.00	[]
	£3.50 []	40	[]		С	[]		С	[]		5	[]	1500.00	[]
	£3.60 []	55	[]		D	[]		D	[]		9	[]	1.50	[]
	£3.85 []	60	[]		Ε	[]		Ε	[]		8	[]	00.15	[]

19.	;	20.	21.		22.	23.	24	
	3/8 []	80m []	400g []		6 []	12 []	£2.35 []
	3/10 []	48m []	350g []		8 []	14 []	£2.50 []
	1/3 []	72m []	250g []		10 []	16 []	£3.10 []
	1/5 []	144m []	325g []		12 []	10 []	£2.65 []
	3/10 []	64m []	275g []		4 []	4 []	£1.95 []

25.	26.	27.	28.	29	
	18 []	£15.00 []	£2.00 []	10 []	U(2,6)S(6,4)[]
	15 []	£21.50 []	£3.50 []	7 []	U(6,2)S(6,4)[]
	12 []	£17.50 []	£1.95 []	9 []	U(2,6)S(2,6)[]
	22 []	£22.50 []	£2.20 []	8 []	U(6,2)S(4,6)[]
	14 []	£20.00 []	£3.00 []	6 []	U(6,8)S(6,2) []

Parallelogram []
Pentagon []
Rhombus []
Trapezium []
Kite []

11+ Mathematics Sample Paper. Answers

1	£15.00	11	1/3	21	350g
2	60 cm ²	12	21	22	6
3	E	13	£3.85	23	14
4	9	14	60	24	£2.65
5	14	15	В	25	18
6	120	16	B and E	26	£22.50
7	15	17	6	27	£2.00
8	40°	18	150	28	10
9	£24.50	19	1/5	29	U (6,2)S(4,6)
10	58	20	64 m	30	Parallelogram

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