

## 11 Plus Maths

Paper 5

**Total marks**: 65 **Time allowed**: 1 hour

Full name .....

Write your answers to each question along with all of your working in the spaces provided beneath each question.

Good luck!

1. Calculate the answers to the following 4 questions:

\_\_\_\_(8)

2.	On a visit to the supermarket I am looking for oranges. how many can I buy with my £1.33?	They co	ost 7p	each so
			orar	nges (2)
3.	If the 15:45 school bus left school 19 minutes late, at w	hat time	did i	t leave?
				(2)
	How much should I receive in change from the shop own their shop when I give them a £20 note?	erif Isp	end £1	2 . 87 in
				(2)
5.	What is the volume of a box of tissues which measures	17cm by	/ 9cm	by 2 cm?
				(2)

Calculate the area of a square whose perimeter measures 36cm.	
Write 23 tenths as a decimal.	(2)
	(2)
Express the number 72 as a pair of numbers multiplied together ways:	in two different
and ORand  How many 7 a-side teams can be made from 4 classes of 21 cl	(2) nildren?
	teams (2)
I. What is the product of 12 and 13?	hours (2)
	Write 23 tenths as a decimal.  Express the number 72 as a pair of numbers multiplied together ways:  and OR and  How many 7 a-side teams can be made from 4 classes of 21 cl

	180 degrees ab	out their cent	tre point?		
	P		C	Н	X
13.	What percentage	of 2 kg is 2!	50g?		(2)
14.	If I roll two fair d	ice, which of	the scores, 3 , 7 a	and 12 am I less	% (2) s likely to get?
15.	_		e and needs 75 gi or 16 people , how		to make it. If I
					grams (4)

12. Which of the following letters will look exactly the same when rotated through

16.	On an Ordnance Surve on the map represent	-	1 kilometre. How	many millimetres
				mm (2)
17.	Given that 456 x 87 = 3	39672, what is the value	e of 2.28 x 0.87?	
				(2)
18.	_	in of sweets was divideren 24 sweets each. If to s how many sweets wo	the same tin of sw	eets was divided
				sweets (3)

19.	Edward purchased 8 trees and 3 roses from the garden centre. Mike I roses and 3 trees from the same garden centre. Edward paid £1.25 m Mike did. How much was a tree if each rose cost 45p?	_
	pe	ence (3)
20.	A container has a mass of 8 kilograms when full of ice-cream, and it mass of 4.5 kilograms when half of the ice-cream has been eaten. We mass be when a quarter of the ice-cream remains?	has a
		kg (4)

21.	An empty rectangular tank with a base area of 2400cm <sup>2</sup> is being filled with fuel from two taps. One of the taps can fill with 12 litres of fuel per minute and
the	
the	Second tap can do it in 3 litres less per minute.  (a) What will be the depth of fuel in the tank after both taps have been on for 6 minutes?  (b) If fuel leaks from the tank at a rate of 2 litres per minute for 6 minutes, what will be the depth of fuel in the tank?
	Answers: (a)cm (2)

22. In the UK maths challenge you gain 5 marks for a correct answer, you lose 2 marks for an incorrect answer and you lose no marks if you simply leave a question out.

If a challenge has 25 questions in total and Daniel gets 11 correct answers and leaves 7 questions unanswered: what score does Daniel achieve?

(b) cm (2)

	(3	)
23.	In a scalene triangle which has angles of $\mathbf{x}^0,\mathbf{y}^0$ and $\mathbf{z}^0$ if the mean of $\mathbf{x}$ an is $\mathbf{z}$ , what is the value of $\mathbf{z}$ ?	d
	(3)	)
24.	Sir Know-it-all has lots of tables and chairs ready for a banquet. Each round table can seat 8 guests and each rectangular table can seat 6 guests. If the are 35 guests arriving what is the smallest number of tables that he can us so that all seats are sat in around each table used?	re
	oo mar an oodio are out in around odon table assa.	

у

\_\_\_\_(4)

/ 65

Total

## **Answers:**

- 1. a) 85
  - b) 39
  - c) 623
  - d) 21 remainder 1 OR 21.33333... OR 21 1/3.
- 2. 19 oranges
- 3. 16:04
- 4.£7.13
- 5. 306 cm<sup>2</sup>
- 6. 81 cm<sup>2</sup>
- 7. 2.3
- 8. 8 and 9 , 12 and 6 , 4 and 18 , 3 and 24 , 2 and 36
- 9. 12 teams
- 10. 2160 hours
- 11, 156
- 12. I, H, X
- 13. 12.5%
- 14. 12
- 15. 300 grams
- 16. 30 mm
- 17. 1.9836
- 18. 16 sweets
- 19. 70 pence

- 20. 2.75 kg
- 21. a) 52.5 cm b) 47.5 cm
- 22. 41
- 23. 60°
- 24. 5