

ALDENHAM SCHOOL

11 + Entrance Paper

SAMPLE PAPER

Mathematics

Length of Examination – 45 minutes

Do not open until you are told to do so

Surname:	School:
First name:	Age: Years Months

INSTRUCTIONS FOR CANDIDATES

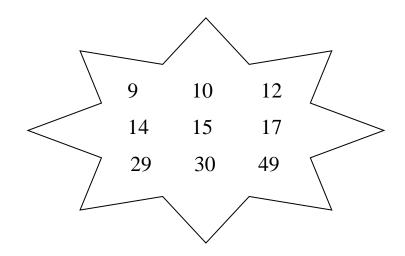
- Write your answers in the spaces provided in this booklet
- Show sufficient method to show how you obtained your answers
- Calculators MUST NOT be used in any question.
- Rulers may be used.

Work steadily through the paper doing as much as you can straight away, then go back to work at the more difficult questions.

Total Number of Marks: 80

1.	Write the number fourteen thousand and thirty six in figures.						
							[1]
2.	Fill in the gaps						
	a) + $15 = 43$	b)	6	X	=	54	
	c) 23 = 57	d)	64	÷	=	8	[4]
3.	The Palladium can hold 2175 spectator If 305 of the seats are empty how many		e sea	ats ar	e taker	า?	
							[2]
4.	A bottle of fizzy pop holds 750ml.						
	How many 150ml glasses can be filled	from t	his b	ottle	?		
							[2]
5.	Katie's mum gives her £10.						
	She spends £1.90 on magazines, £2.4 chocolate. How much money does she			hday	card a	ınd 75p	o on
							[3]

- 6. a) 14 x 100 =
 - b) 864 ÷ 100 =
 - c) x = 300 = 60
- 7. Look at the numbers in the star.



[3]

- a) Which two numbers are multiples of 6?
- b) Which two numbers are prime?
- c) Which two numbers are factors of 70?
- d) Which two numbers are square numbers? [8]

8.	He gHe g		to his Granny to b of what was left to	make an apple pie o his friends and th	
	How many	did he put in the	fruit bowl?		
					apples[3]
9.	Emilie is th	ninking of a numb	er.		
	If she	adds 2 tothen squaand then		ets 60.	
	Circle the number that Emilie was thinking of.				
		4	6	30	
					[1]
10.	Circle the	smallest number	in each group.		
	a)	0.309	0.039	0.93	0.093
	b)	-7.5	-8	2	0
	c)	$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{7}$	$\frac{1}{8}$

30%

0.22

d)

0.4

11.

World weather	Temp
Algiers	16°C
Barcelona	17°C
London	5°C
Moscow	-9°C
New York	7°C
Oslo	-5°C

a)	The temperature recorded in Paris was 8°C lower than in London.
	What was the temperature in Paris?
	°C [1
b)	What was the difference in temperature between Oslo and New York?
	°C [1]
12.	Freya scored 16 out of 20 in her spelling test.
	Hannah scored 85% in her spelling test.
	Who did better? You must explain your answer.
	did better because

13.	3. Fill in the missing numbers in the sequences below.					
a)	-3	1	5	9		
b)	32	26		14		2
c)	3	6	12		48	
d)	1	4		16	25	
						[8]
14.			a)	Estima	te the size c	of angle A
	A	В	a)	ESuma	ile lile size c	ir arigie A.
	b) Use yo	ur answer	to part (a) to	find the si	ze of angle I	3. [2]
15.	The students Heathrow Air Their flight le	port at 05:3		all Tour to	Madrid arriv	e at
	How many m leaves?	inutes do th	ney have to w	ait at the a	irport before	their flight
						minutes[2]

16. The chart below shows the favourite sports of a group of students.

	Tennis	Football	Hockey	Swimming	TOTAL
Boys	5			6	25
Girls		5	12		
TOTAL	13		14	16	

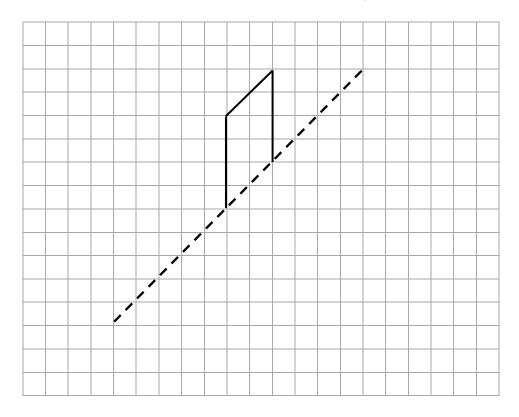
a) Complete the chart above

[3]

b) Find the probability that a student picked at random likes Hockey best.

.....[1]

17. Draw the reflection of the shape below in the given line of symmetry.

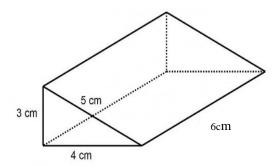


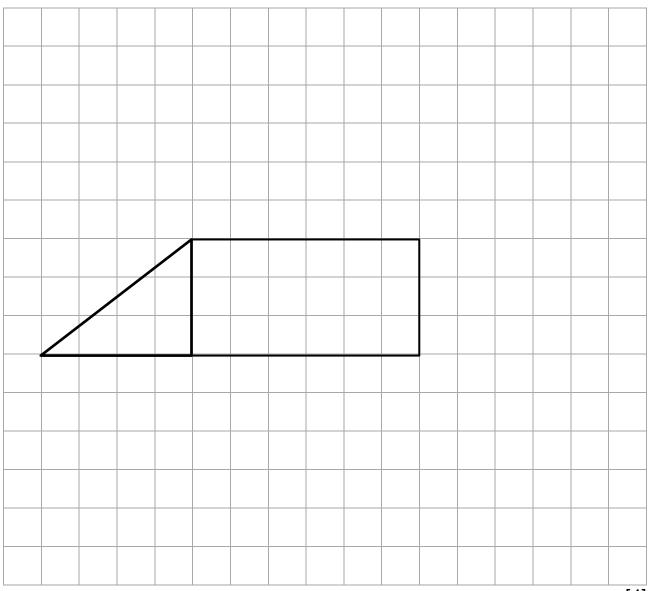
18.	-	robability of it raining tomorrow is 0.08. ing tomorrow?	What is the probability of it	t
19.		vey was carried out to see what colour e results:	[1 cars people owned. Here]
		Car Colours		
			■ Black ☑ Silver □ White □ Red	
	a) \	What fraction of people owned a black	car?	
			[1]
		Given that 5 people owned a white car a silver car?	, how many people owned	
			[2	<u>'</u>]
20.	How n	nuch will 46 lollipops cost if they cost £	1.25 each?	

.....[3]

		as 8 pizzas to share between himself and hi	
I	f each	person is to get $\frac{2}{3}$ of a pizza how many fri	ends can he feed?
			[2]
22.	Bob	is very proud of his new car. It is 370cm loa	ng.
	a)	Convert 370cm in to metres	m [1]
	b)	Convert 370cm into millimetres	mm [1]
23.	The	following is a recipe for making 12 cupcake	es.
		200g caster sugar 200g butter 180g flour 2 eggs	
	a)	Isaac wants to make 36 cupcakes. How nuse?	nuch flour should he
			g[1]
	b)	Lucy has 1 kg of caster sugar. Given that she had plenty of all the other cupcakes can she make?	ingredients, how many
			cupcakes[1]

24. Add some extra faces to this diagram to make it the net of a right angled triangular prism.





25. Which of these amounts is the cheaper? Circle your answer.

Show your workings.

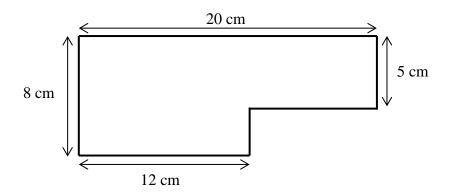
[2]

26. Fill in the gaps.

a)
$$\frac{1}{18} + \frac{1}{18} = \frac{1}{2}$$

b)
$$\frac{1}{24} + \frac{1}{3} = \frac{1}{2}$$
 [2]

27. Find the perimeter of the shape below.



.....cm [3]

- 28. Have a look at the deals ticket vendors are offering:
 - Each ticket cost £480.



If I needed 3 tickets, put the vendors in order (cheapest first).