



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: 64

1. The table shows the size of population for five Derbyshire villages.

Village	Population
Ashover	1796
Bamford	14320
Clowne	6152
Darley Dale	9517
Eckington	22315

(a)	Write the population	n of Darley Dale in words.
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[1]

(b) Write the population of Clowne correct to the nearest 100.

																				1	1]

(c) Write the population of Eckington to the nearest 1000.

																	ſ	1	ı

(d) How many more people live in Eckington than Bamford?

2. Fill in the gaps

a) +
$$46 = 100$$

c)
$$\div$$
 20 = 7

3.	Mrs Green parked her car in a car park at 9.00 am
	She drove out of the car park at 5.00 pm.

Car Parking Charges

				£1.	80 per hour		
(a)	For h	ow many ho	ours was	her car in t	the car park?	,	
(b)	How	much did s	he pay, i	n total, for p	oarking her c	ar?	hours [1]
						£	[1]
4.	a)	2.4	x	100	=		
	b)	8600	÷	10	=		
	c)		х	30	=	600	
	d)	80	÷	200	=		[4]
5.	Gino	is thinking	of a num	nber.			
	If he		• the	ves it, n adds 5 to d then squa	it res it and ge	ts 121.	
	Circ	le the numb	er that G	ino was thi	nking of.		
				12	17	32	

6. (a)	The entry	prices at a	theme	park are
σ.,	ω,	1110 01161	prioco at a		pain aid

Adults £6.25 each Children £2.50 each

Find the cost for 2 adults and 4 children to visit the theme park.

£.....[1]

(b) The entry prices for a group are

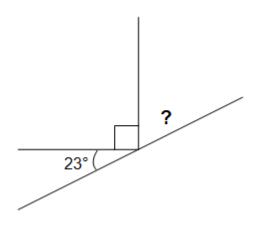
Adults £5.00 each Children £3.00 each

A group of adults and children goes to the theme park for a cost of £44.

There are 4 adults in the group. How many children are in the group?

..... children [2]

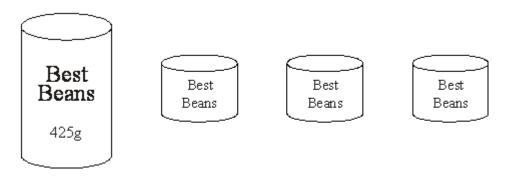
7.



Not to scale.

What is the value of the missing angle.

.....°. [1] 8. The total weight of one large and three small cans of Best Beans is 1.25 kg. The large can weighs 425 grams.

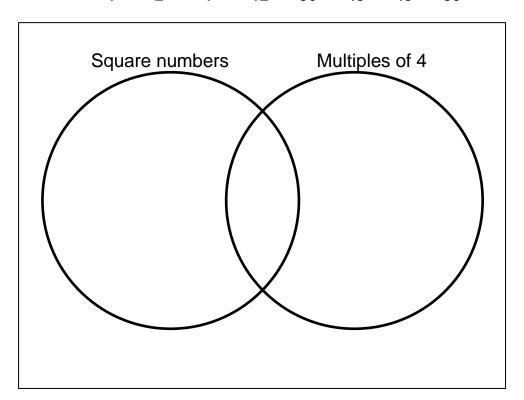


Work out the weight of one small can.



9. Place the numbers below in the correct place in the Venn Diagram.

1 2 4 12 36 48 49 50



[4]

10.	Find the mean	weight of the	sharks b	elow
	i ilia tilo ilioali	woight of the	oriarito b	CICVI

					4	The state of the s	
3kg	6kg	9kg	22kg	28kg	1kg	6kg	5kg

[3]

- There are 24 pupils in 7S. 11.

 - Two thirds of them are boys.Half of the boys have brown hair.

How many of pupils in 7S are boys with brown hair?

[2]

Circle the highest number in each group. 12.

> 0.609 0.63 a) 0.069 0.063

b) -7.5 -1 -8 -1.5

0.09 0.44 d) 39%

13 The temperature, in °C, at midday at the theme park on 6 winter days was recorded.

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Temperature	- 3	- 2	0	-4	1	-1

(i)	Which day was the warmest at midday?	
		[1]
(ii)	Which day was the coldest at midday?	
(d)	On Sunday the temperature was 5 degrees warmer than on Saturday.	[1]

 C
1]

14 The table shows Ann's marks in two tests.

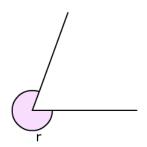
What was the temperature on Sunday.

Test	Mark
1	60 out of 80
2	70 out of 100

In which test did Ann do better? You **must** show your working.

									.[2]

15.



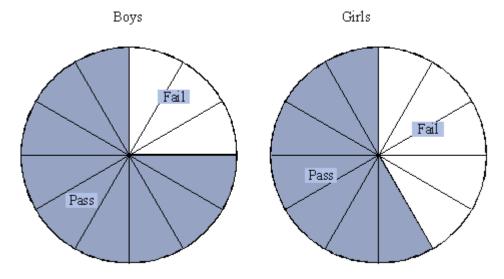
Estimate the size of angle r.

r =

16.	Edith is choosir	ng pairs of n	umbers fror	n this list.				
		4	23	45	58	120		
(a)	She multiplies							
	Which two num	bers should	she choose	e to get an a	answer bet	ween 200 ar	nd 300?	
							and	[1]
(b)	She divides one	e number by	another nu	mber.				
	What is the larg	est possible	answer?					
								[1]
17.	Fill in the missi	ng numbers	in the sequ	ences belov	N .			
a)	-8	-3	2	7				
b)	61	53		37			21	
c)	240	120		. 30		15		
								[3]
18.	The students o 10:45. Their flight leav			aphy trip to I	celand arr	ive at Heathr	ow Airport a	ıt
	How many min	utes do they	have to wa	it at the airp	oort before	their flight le	eaves?	
							minu	ites [1]

The chart be	elows	shows	s the to	echno	ogy sub	jects	studie	es by	a grou	up of stu	dents.
		Art	t		esign T	ech		Texti	les	тс	TAL
Boys		25						0			60
irls					12			5			
OTAL		52	ı					5			
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d the leng	th and	n area d widt	of 36	e rect		imete	er of 2	6 cm.			

22. The pie charts show the results of a cycling test taken by all pupils in year 7.



(a) The number of boys who fail the test is 15.

How many boys pass the test?

		[1]
(b)	Charlie says that more girls fail the test than boys.	
	Explain why he might not be correct.	
		[1]

23. Work out 235 x 68

^	
Which 3D shape is this the net of?	
	[1]
24b. Which 2D shape has 4 sides, no right angles and 1 pair of parallel sides?	
	[1]
25. If 2 apples and 1 banana cost £1.20 and	
1 apple and 2 bananas cost £1.35, find the cost of an apple and a banana separately	

Apple	р
Banana	p

Zain wants to buy **two** chairs.

Three shops advertise the same luxury chair. Each shop has a special offer.

Shop A

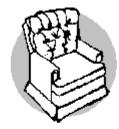
Chair - normal price £600

Special Offer – 30% off normal price

Shop B

Chair - normal price £550

Special Offer – $\frac{1}{5}$ off normal price



Shop C

Chair - normal price £820

Special Offer – buy one get one free

At which shop is the price of the two chairs the cheapest?

You **must** show your working.

Shop