

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	of Darley	Dale in words.
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1]

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

																									Γ	•	1	1	ĺ

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

	[1]

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

2. Fill in the gaps

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 ho	w many hour	s was h	ner car in the	car park?		
(b)	How i	much did she	pay, in	total, for park	 ring her car?	hoເ	ırs [1]
						£	 [1]
4.	a)	2.4	x	100	=		
	b)	8600	÷	10	=		
	c)		x	30	=	600	
	d)	80	÷	200	=		[4]
5.	Gino	is thinking of	a numb	oer.			
	If he	•	then	adds 5 to it	it and gets 12	21.	
	Circle	the number	that Gir	no was thinkir	ng of.		
			1	12	17	32	

6.	(a)	The entry prices at a theme park are
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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

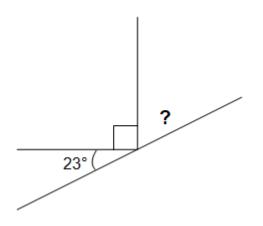
Adults £5.00 each Children £3.00 each

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]

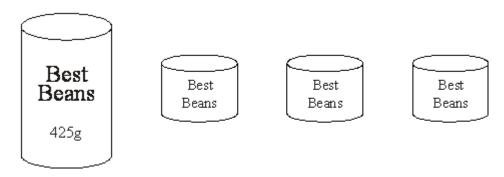
7.



Not to scale.

What is the value of the missing angle.

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

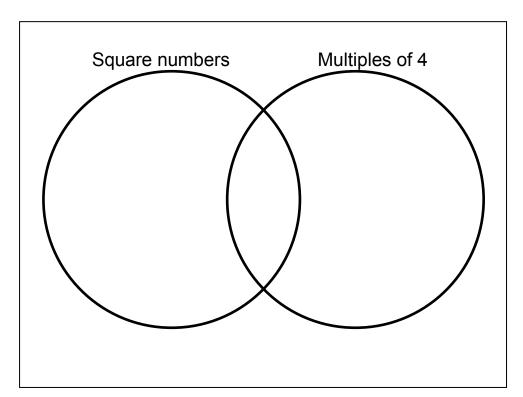


Work out the weight of one small can.

..... grams [2]

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

1 2 4 12 36 48 49 50



[4]

io. I ilia tile ilicali weigilt of tile silaliks belo	10.	Find the mean	weight of the	sharks belo	w
---	-----	---------------	---------------	-------------	---

					4	Carried States	
3kg	6kg	9kg	22kg	28kg	1kg	6kg	5kg

- 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.

> a) 0.609 0.069 0.63 0.063

b) -7.5 -1 -8 -1.5

0.09 39% 0.44 d)

[3]

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?
-----	--------------------------------------

	•	 				•	 							•	•	 	 				•				
																					I	•	1	1	

(ii) Which day was the coldest at midday?

		•			•	•						•	•	•	 	 							•	
																						[1]

(d) On Sunday the temperature was 5 degrees warmer than on Saturday. What was the temperature on Sunday.

 °(
[1

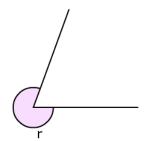
14 The table shows Ann's marks in two tests.

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.



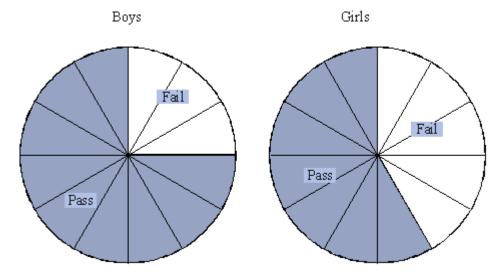
Estimate the size of angle r.

r =

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

.ov many Z	oonii gidooco	of water can it fill bef		
he chart be	low shows the	e technology subjects	studies by a group	p of students
	Art	Design Tech	Textiles	TOTAL
oys	25		0	60
irls		12	5	
OTAL	52		5	
nd the length		36 cm ² and a perimet f the rectangle.	er of 26 cm.	
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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

[3]

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.	
Applep	
Bananap	[3]

Zain wants to buy **two** chairs.

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

Shop A

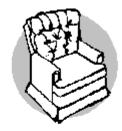
Chair - normal price £600

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

[3]