



Aldenham School I I + Sample Paper Subject: Maths

Time allowed: 45 mins

Instructions:

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

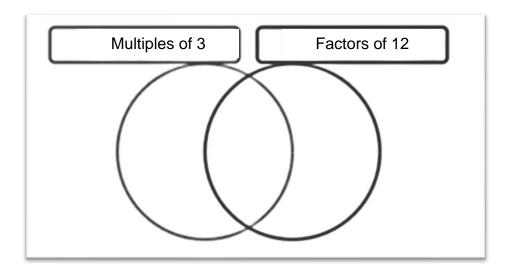
Work steadily through the paper doing as much as you can straight away, then go back to work at the more difficult questions.

Mark:	/ 55	%.
riaik.	1 33	/o .

1.	Round the following numbers as sta	ated	
a)	to the nearest 10		
b)	6283 to the nearest 1000	0	[1]
			[1]
2.	Work out the following calculation	s	
a)	246 x 8		
b)	2592 ÷ 4		[2]
3.	Fill in the gaps		[2]
	a) $\sqrt{64} =$	b)	× 30 = 240
	c) x 0.4 = 20	d)	28 = 30

4. Place these seven numbers in the correct places in the Venn Diagram.

2 3 4 5 10 12 24



[3]

5. Jake buys 2 coffees, a milkshake and a cappuccino.

How much change does he receive from a £10?

Drinks M	lenu)
Tea	£1.40
Coffee	£1.60
Cappuccino	£1.90
Hot Chocolate	
Fruit Juice	£1.20
Milkshake	£1.70
Smoothie	£1.30
Fizzy Pop	£1.00

£.....

	gredients	a)	How ma	ny tables	poons of	golden sy	yrup will he n	eed?
8	red apples							
40	0g <u>caster sugar</u>							
1	tsp lemon juice							
4	tbsp <u>golden syrup</u>							
re	d or black food colouring							
		J					•••••	
In 20	18 a charity raffle raised £48	80. In 2	2019 they	raised 30	% more.			gra
How	much did the charity raise in	n 2019	9?					
							£	
Arth	ur's twin sisters are 4 years o	older t	than him.	Altogethe	er their a	ges add u	ıp to 77.	
	ur's twin sisters are 4 years o	older 1	than him.	Altogeth	er their a	ges add u	ıp to 77.	

9. Which calculation gives the largest result? Circle your answer.

$$3+0+2+8$$
 $3\times 0+2+8$ $3+0\times 2+8$

$$3 + 0 + 2 \times 8$$
 $3 \times 0 + 2 \times 8$

[1]

- 10. Three vertices of a rhombus are (-4, 2), (-1, 6) and (4, 6).
- 10a. Plot these points on the axes below.

10b. Write down the co-ordinate of the missing vertex of the rhombus.

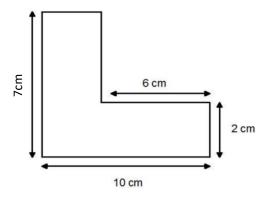
[1]

11. Circle the number below which is not a factor of 60?

15 120 60

[2]

12. Find the area of this shape.



..... cm² [2]

- 13. Circle the smallest number in each list.
- 13a)
- 0.102
- 0.12
- 0.112
- 0.201

- 13b) 0.8
- 3 4
- 73%
- $\frac{18}{25}$

14. Work out
$$\frac{2}{3} - \frac{3}{10}$$

[2]

[2]

15. What is 23% of 1200.

....

Put these fractions in ascending order of size, show workings. 16.

$$\frac{3}{5}$$
 of 30

$$\frac{3}{5}$$
 of 30 $\frac{7}{10}$ of 20 $\frac{2}{3}$ of 24

$$\frac{2}{3}$$
 of 24

[2]

17. Given that a = 5, b = 10 and c = 2 complete the following expressions with <, > or =.

[2]

18. Work out the angle marked x.

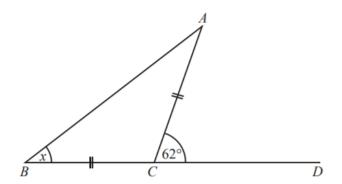


Diagram NOT accurately drawn

19a)) So	lve the	following	equation
	,	. ,	۵	equac.o

$$\frac{x}{2} = 10$$

x =.....

[1]

19b) Solve the following equation to find b.

$$2b - 25 = 41$$

[2]

20. A farm equipment company kept a record of the number of tractors made each month.



20a) Find the mean number of tractors.

.....

[1]

20b) Including the October sales the new mean is 35. How many tractors were sold in October?

.....[2]

21.	What fraction of these numbers are below the median?
	2, 7, 10, 5, 4
	[2]
22.	Given that two teas and a coffee cost £2.50 and one tea and three coffees cost £3.50.
	How much does a single coffee cost?
	p
	[3]
23.	A bridge is built across a river. One quarter of the bridge is over the left bank of the river and one
	of the bridge is over the right bank.
	The river is 84 m wide.
	How long is the bridge?
	m [3]
24.	Write down all the numbers between 50 and 150 that have an odd number of factors?
	[2]
	END