Name:	()
Class: Primary 6		

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 6 Mathematics
2019 Termly Assessment
26 February 2019

Total Marks 55

Parent's/Guardian's Signature

Time: 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet
The use of an approved calculator is expected, where appropriate.

This booklet consists of 16 printed pages.



Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

1. Azura has 473 marbles and Lillian has 259 marbles. How many marbles must Azura give to Lillian such that both of them will have the same number of marbles?

Ans:_____

Do not

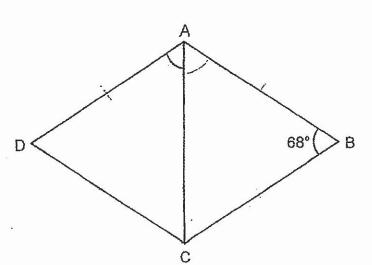
write in this

space

2. Simplify $(7x + 4 - 3x) + 6 \div 2$.

Ans : _____

3. ABCD is a rhombus, Find \angle DAC.



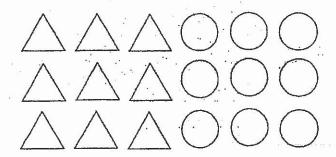
Ans:

Do not

write in

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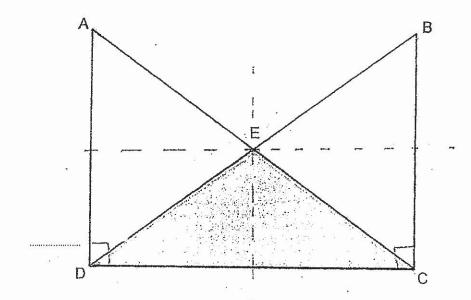
4. There are some triangles and circles. 4 circles are removed. What percentage of the remaining shapes are triangles? Round your answer to the nearest whole number.



Ans:

5. The figure below is made up of 3 triangles, ADE, BCE and CDE. ADC and BCD are 2 identical right-angled triangles. Point E is the midpoint of Line AC and Line BD.

Do not write in this space



Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (\checkmark) in the correct column.

Statement	True	False	Not possible to tell
In Triangle BCE, BC is the base and BE is the height.			
The area of Triangle CDE is $\frac{1}{3}$ of the area of the whole figure.		-	

6.	The average English s group, the average sco English score of the 3	core of a group of 12 pupils was 78. Whe ore of the remaining pupils became 82. W pupils who left?	n 3 pupils left the /hat was the total	
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7. The total mass of Alvin, Brian and Calvin is (4n + 9) kg. The mass of Alvin is 2n kg and the mass of Brian is half of Alvin's.

Do not write in this space

- (a) What is the mass of Calvin? Give your answer in terms of n.
- (b) Given n = 35, what is the mass of Calvin?

Ans:	(a)	[2	1
	, ,	 	3

8.	Samuel baked some muffins. He sold $\frac{1}{3}$ the afternoon. He had 36 muffins left. How	of them in the morning and $\frac{4}{9}$ of them in many muffins did Samuel bake?	Do not write in this space
15			
		Ans :	.[3]

9. All wanted to return a book that was overdue for 6 days. The overdue charges for each book are shown in the table below.

Do not write ir this space

Overdue charg	jes per book
No. of days overdue	Charges
First 5 days	\$0.15 per day
Every additional day	\$0.35 per day

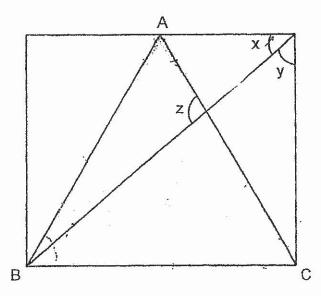
Ali had only \$0.85. How much more did he need to pay for the overdue charges?

Ans:	[3]	
3).		

10.	box is 9:5. There	mber of twenty-cent are 104 more twent veen the value of the	ly-cent coin	s than one	-dollar coin:	s. What is	Do not write in this space
				4	. ·		
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11. The figure below shows a rectangle. ABC is an equilateral triangle.

Do not write in this space



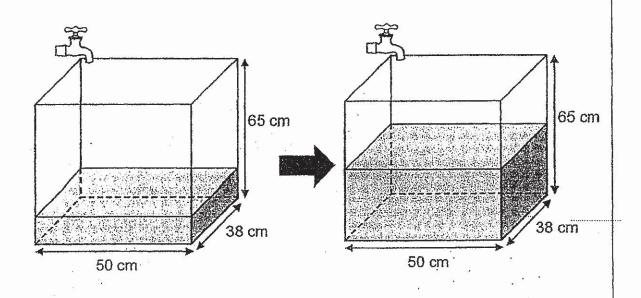
The ratio of \angle x to \angle y is 4 5. Find the value of \angle z.

Ans:_____[3]

Do not 12. Mrs Ng wants to buy the following three toys for her children for Christmas. write in this space Promotional Promotional item item Toy Blocks Teddy Bear Promotional Price: \$35 Promotional Price: \$9 Toy Train Usual Price: \$55 She has two options for her purchase. Option 1: Use her membership card and get a 15% discount on items that are not on promotion. Option 2: Use a \$10 discount voucher to get \$10 off her total purchase. Which option should she choose if she wants to enjoy more savings? How much more savings would she enjoy if she chooses that option? Ans: Option _ Savings: ___

13. Water flowed from a tap at the same rate into a rectangular tank measuring 50 cm by 38 cm by 65 cm. At 6 p.m., the height of the water in the tank was 13 cm. At 6.30 p.m., it was $\frac{1}{2}$ filled with water. How much water flowed into the tank in one minute?

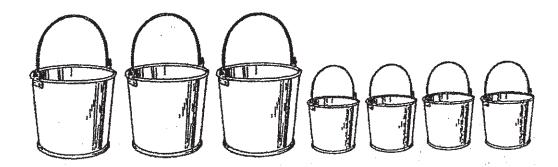
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Ans: _____[4]

14. Sulyn filled two types of pails, large and small, with some red paint that she had bought. She filled 3 identical large pails and 4 identical small pails to the brim with 10.1 for red paint.

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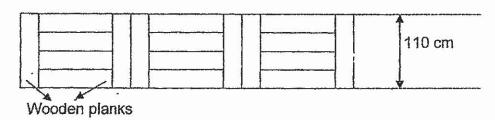
She could not fill another large pail to the brim with the remaining amount of red paint as she was short of 0.3 ℓ of red paint. Hence, she filled another small pail to the brim and had 0.5 ℓ of red paint left.

- (a) How many more litres of red paint can each large pail hold than each small pail?
- (b) How many litres of red paint did Sulyn buy?

ns : (a)	[1]	
(b)	[3]	

15. A wooden path of length 19.8 m is completely covered with similar wooden planks, following the pattern shown below. The width of the path is 110 cm.

Do not write in this space



- (a) What is the breadth of each wooden plank?
- (b) How many wooden planks were used to cover the entire path?

Ans: (a) _____[1]

(b) [4]

16. Nuts were sold at \$8 per kilogram. Mrs Ho spent some money to buy some nuts. Do not write in She gave $2\frac{1}{2}$ kg of nuts to her neighbours and $\frac{1}{5}$ of the remainder to her son. She this space gave the rest of the nuts equally to her 3 daughters. Each daughter received 1 kg of nuts. How much did Mrs Ho spend to buy the nuts?

Ans:

[5]

17. Ping Ting draws some triangles that follow a pattern. The first four figures are shown below.

Do not write in this space

[1]







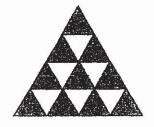


Figure 1

Figure 2

Figure 3

Figure 4

(a) Study the pattern and complete the table below.

Figure Number	Number of shaded triangles	Number of unshaded triangles	Total number of triangles
1	1	0	1
2	3	1	4
3	6	3	9
4	10	6	16
5			

- (b) What is the total number of triangles in Figure 17?
- (c) How many unshaded triangles will there be in Figure 25?

	103
Ans : (b)	 [2]

End of Paper



ANSWER KEY

YEAR

: 2019

LEVEL

: PRIMARY 6

SCHOOL

: CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

SUBJECT

: MATHEMATICS

TERM

: CA1

Q1	473 – 259 = 214
	$214 \div 2 = 107$
	Ans → 107 marbles
Q2	$(7x + 4 - 3x) + 6 \div 2$
30.100	=(4x+4)+3
	=4x+7
	Ans \rightarrow 4x + 7
Q3	180 - 68 = 112
	$112 \div 2 = 56$
	Ans → 56°
Q4	Triangle: Shape → 9:5
	9
	$\frac{9}{14} \times 100\% = 64\frac{2}{7}$
	Ans → 64%
Q5	(a) False
	(b) Not possible to tell → Base and height might different length.
Q6	Total of 12 pupils → 12 x 78 = 936
	Total of 9 pupils → 9 x 82 = 738
	936 – 738 = 198
Q7	A → 2n
,	$B \rightarrow 2n \div 2 = n$
	$C \rightarrow 4n + 9 - 2n - 1n = n + 9$
	(a) (n + 9)kg
1	(b) $35 + 9 = 44$ kg
Q8	$1 - \frac{1}{1} - \frac{4}{1} = \frac{9}{1} - \frac{3}{1} - \frac{4}{1} = \frac{2}{1}$
	$\begin{vmatrix} 1 - \frac{1}{3} - \frac{1}{9} & \frac{1}{9} - \frac{1}{9} - \frac{1}{9} & \frac{1}{9} \end{vmatrix} = \frac{1}{9}$
	$36 \div 2 \times 9 = 162$
	Ans → 162 muffins
Q9	$0.15 \times 5 = 0.75$
	0.75 + 0.35 = 1.10
040	1.10 = 0.85 = \$0.25
Q10	104 = 9u - 5u
	4u = 104
	$u = 104 \div 4 = 26$
	For twenty-cent coins,
201	26 x 9 = 234
	234 x 0.20 = 46.80
	For one-dollar coins.
	5 x 26 = 130
	130.00 - 46.80 = \$83.20

1

Q11	$\langle x : \langle y = 4 : 5 \text{ (total of } 90^{\circ}) \rangle$	
	$< x = 40^{\circ}; < y = 50^{\circ}$	
14.57	$< xBC = 40^{\circ}$	
	$<$ Abx = $60^{\circ} - 40^{\circ} = 20^{\circ}$	
	$< z = 180^{\circ} - 60^{\circ} - 20^{\circ} = 100^{\circ}$	
	Ans → 100°	
Q12		
-	$\frac{85}{100} \times 55 = 46.75$	
	46.75 + 35 + 9 = \$90.75	
	Option 2,	
	35 + 9 + 55 - 10 = \$89	
	Ans(a) → Option 2	
	\$90.75 - \$89.00 = \$1.75	90.5
	Ans (b) → \$1.75	
Q13		····
	50 x 38 x 13 = 24700	
	6.30pm	
	$65 \div 2 = 32.5$	
	50 x 38 x 32.5 = 61750	
	61750 - 24700 = 37050	
	$37050 \div 30 = 1235$	
	Ans → 1235ml	
Q14		
	Ans (a) → 0.8L	
	$0.8 \times 3 = 2.4$	
	10.1 – 2.4 = 7.7	Di .
	$4 \times 3 = 7$	
	$7.7 \div 7 = 1.1$ (Small pail)	
	1.1 + 0.5 = 1.6 (extra)	00 0
	10.1 + 1.6 = 11.7	
	Ans (b) → 11.7L	
Q15		
٠.٠	Ans (a) → 27.5cm	
· . · · ·	27.5 x 2 + 110 = 165	
	19.8m = 1980cm	
121	1980 ÷ 165 = 12	
7	12 x 6 = 72	
	Ans (b) \rightarrow 72 planks	
Q16		
4,10	$$24 \div 4 \times 5 = 30	
	$2\frac{1}{2}kg \times \$8 = \20	
	$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}$	
	Ans → 50	
Q17	(a) 15 , 10 , 25	
GC11	(b) 17 x 17 = 289	
	The state of the s	
	(c) 1 + 2 + + 24 = 24 x (median + 0.5) {For eg, 1 + 2 + 3 = 3 x 2}	
	= $24 \times 12.5 = 300$ {For eg, $1 + 2 + 3 + 4 = 4 \times 2.5$ }	