

Name : \_\_\_\_\_ ( )

Class : Primary 6 \_\_\_\_\_

## CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 6 Mathematics

2016 Continual Assessment One

Paper 1

Booklet A

1 March 2016

15 QUESTIONS  
20 MARKS

TOTAL TIME FOR BOOKLET A & B : 50 MINUTES

**INSTRUCTIONS TO CANDIDATES**

DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.  
FOLLOW ALL INSTRUCTIONS CAREFULLY.  
ANSWER ALL QUESTIONS.  
THE USE OF CALCULATORS IS NOT ALLOWED.

*This booklet consists of 8 printed pages including the cover page.*

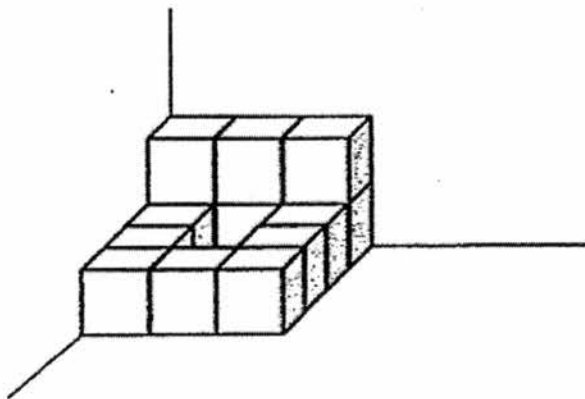
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3, 4) on the Optical Answer Sheet. (20 marks)

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1) What is the value of  $350 \times 4000$ ?

- (1) 1400
- (2) 14 000
- (3) 140 000
- (4) 1 400 000

2) The figure below is not drawn to scale. Talia made the solid below using 1-cm cubes. What was the total volume of the solid?



- (1)  $11 \text{ cm}^3$
- (2)  $12 \text{ cm}^3$
- (3)  $13 \text{ cm}^3$
- (4)  $15 \text{ cm}^3$

- 3)  $\frac{1}{8}$  of a log was sawed into 5 equal pieces. What fraction of the log was each piece?

(1)  $\frac{7}{40}$

(2)  $\frac{1}{40}$

(3)  $\frac{5}{8}$

(4)  $1\frac{3}{5}$

- 4) Which of the following is likely to be the total mass of five twenty-cent coins?

(1) 2.25 g

(2) 22.5 g

(3) 225 g

(4) 2250 g



- 5) Find the value of  $144 - 36 \div 4 + 8$ .

(1) 9

(2) 35

(3) 127

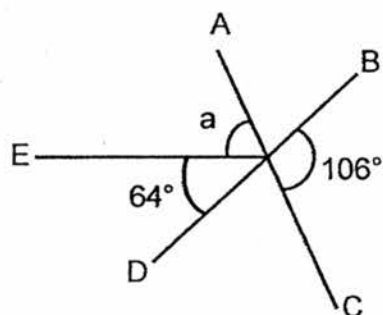
(4) 143

- 6) Eva and Janis collected 1728 stamps altogether. For every 2 stamps Eva collected, Janis collected 7 stamps. How many more stamps did Janis collect than Eva?
- (1) 192
  - (2) 384
  - (3) 960
  - (4) 1344
- 7) Amber paid \$140 for a necklace and a watch. The price of the necklace is  $\frac{1}{4}$  of the price of the watch. How much did Amber pay for the watch?
- (1) \$28
  - (2) \$35
  - (3) \$105
  - (4) \$112
- 8) Express 0.15 as a decimal.
- (1) 0.15%
  - (2) 1.5%
  - (3) 15%
  - (4) 150%

9) The length of a box is 30 cm. The length is 3 times its breadth and the height is the same as the ~~breadth~~ length. What is the volume of the box?

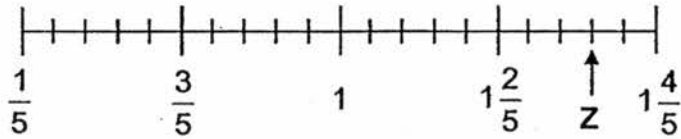
- (1)  $50 \text{ cm}^3$
- (2)  $210 \text{ cm}^3$
- (3)  $9000 \text{ cm}^3$
- (4)  $243\,000 \text{ cm}^3$

10) The figure below is not drawn to scale. AC and BD are straight lines. Find  $\angle a$ .



- (1)  $10^\circ$
- (2)  $26^\circ$
- (3)  $42^\circ$
- (4)  $53^\circ$

- 11) Look at the number line below.



What is the value of Z?

- (1)  $1\frac{3}{25}$
- (2)  $1\frac{12}{25}$
- (3)  $1\frac{14}{25}$
- (4)  $1\frac{16}{25}$
- 12) Jeremy spent 28% of his pocket money on Thursday. On Friday, he spent  $\frac{1}{4}$  of the remainder. What percentage of his pocket money did he spend on Thursday and Friday?
- (1) 54%
- (2) 53%
- (3) 47%
- (4) 46%

- 13) Greg had  $18\ell$  of paint. After pouring some of it into 5 identical containers, he had  $w\ell$  of paint left. Express the volume of paint in each container in terms of  $w$ .

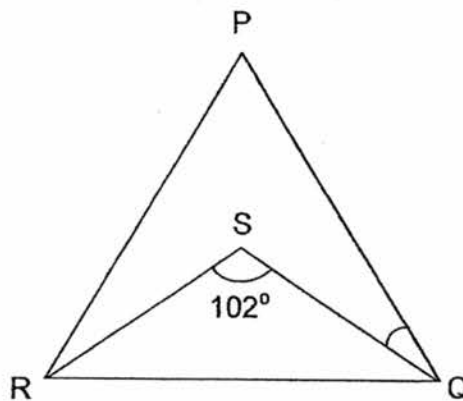
(1)  $(18 - \frac{w}{5}) \ell$

(2)  $(\frac{18w}{5}) \ell$

(3)  $(\frac{18+w}{5}) \ell$

(4)  $(\frac{18-w}{5}) \ell$

- 14) PQR is an equilateral triangle. QRS is an isosceles triangle with  $SR = SQ$ . Find  $\angle PQS$ .



- (1)  $21^\circ$   
(2)  $39^\circ$   
(3)  $42^\circ$   
(4)  $78^\circ$

- 15) Whitney had  $\frac{3}{8}$  as many cookies as Layla. She then gave half of her cookies to Layla. What would be the new ratio of the number of Whitney's cookies to the number of Layla's cookies?
- (1) 3 : 19
  - (2) 3 : 22
  - (3) 8 : 19
  - (4) 19 : 22

**End of Booklet A**



Name : \_\_\_\_\_ (    )

Class : Primary 6 \_\_\_\_\_

**CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)**



**Primary 6 Mathematics**

**2016 Continual Assessment One**

**Paper 1**

**Booklet B**

**1 March 2016**

**15 questions  
20 marks**

**TOTAL TIME FOR BOOKLET A & B : 50 MINUTES**

**INSTRUCTIONS TO CANDIDATES**

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***This booklet consists of 8 printed pages including the cover page.***

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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16) Express 20.4 m in cm.

Ans : \_\_\_\_\_ cm

17) Simplify the expression  $58 + 11g - 26 - 4g$

Ans : \_\_\_\_\_

18) Lena packed 10.2 kg of chicken wings into 30 packets equally. What is the mass of each packet?

Ans : \_\_\_\_\_ g



- 19) Bernice bought a pair of roller skates at \$250. She had to pay an additional 7% GST. How much was the GST?

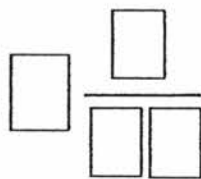
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Ans : \$ \_\_\_\_\_

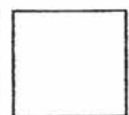
- 20) Express  $12\frac{1}{9}$  as a decimal. Leave your answer correct to 1 decimal place.

Ans : \_\_\_\_\_

- 21) Use the digits 1, 4, 5 and 7 to form the largest possible fraction.



Ans : \_\_\_\_\_

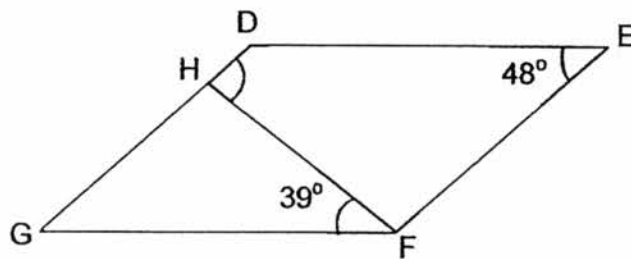


- 22) Pineapple tarts are sold at 50 pieces for \$16. How much does Elaine have to pay for 400 pieces?

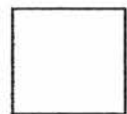
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Ans : \$ \_\_\_\_\_

- 23) DEFG is a parallelogram. Find  $\angle FHD$ .



Ans : \_\_\_\_\_°



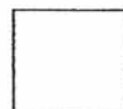
- 24) A jug was filled with  $\frac{5}{8}$  ℓ of milk. Melanie poured all the milk equally into some cups. Each cup contained  $\frac{1}{16}$  ℓ of milk. How many cups were there?

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Ans: \_\_\_\_\_

- 25) What is the value of  $\frac{20w + 21}{11}$  when  $w = 5$ ?

Ans: \_\_\_\_\_



Questions 26 to 30 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)

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- 26) Study the number pattern below. 8 is in column B. The dots mean that the numbers continue in the same manner. Which column will 25 be in?

A	B	C	D	E
1	2	3		
		6	5	4
7	8	9		
		12	11	10
.	.	.	.	.
.	.	.	.	.

Ans : \_\_\_\_\_

- 27) Pond A had 160 fish. Pond B had 112 fewer fish than Pond A. What percentage of the fish from Pond A must be transferred to Pond B so that both the ponds had the same number of fish?

Ans : \_\_\_\_\_ %

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- 28) A bowl of mushroom soup cost \$ $e$ . A plate of pasta cost \$8 more than a bowl of mushroom soup. Keagan bought 3 bowls of mushroom soup and a plate of pasta. He had \$7 $e$  left after paying for the meal. How much money did he have at first?

Ans : \$ \_\_\_\_\_

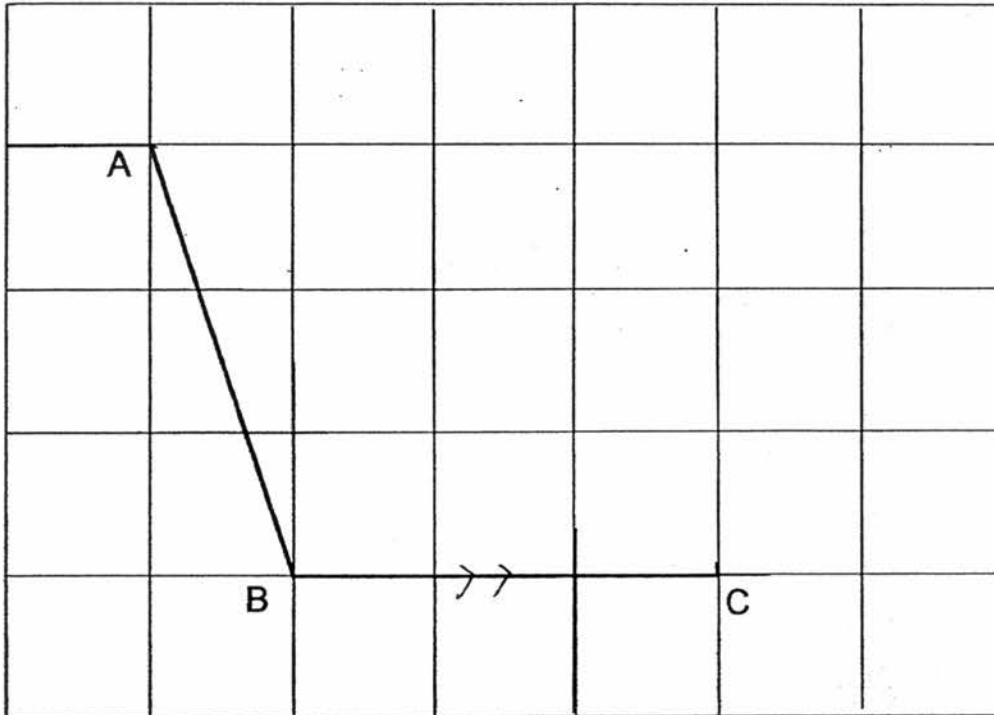
- 29) A box of cards was shared equally among a group of 33 pupils. 9 of them gave all their cards to the rest of the pupils. As a result, the rest of the pupils received 3 more cards each. How many cards were there in the box at first?

Ans : \_\_\_\_\_



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- 30) In the square grid, AB and BC are straight lines that form two sides of a trapezium ABCD. AD is parallel to BC and  $\angle CDA = 90^\circ$ . Label point D and complete the drawing of trapezium ABCD.



End of Paper 1





Name : \_\_\_\_\_ ( )

Class : Primary 6 \_\_\_\_\_

**CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)**



**Primary 6 Mathematics**

**2016 Continual Assessment One**

**Paper 2**  
**1 March 2016**

Paper 1	40
Paper 2	60
Total	100

\_\_\_\_\_  
Parent's Signature

**18 QUESTIONS**  
**60 MARKS**

**TOTAL TIME FOR PAPER 2 : 1 HOUR 40 MINUTES**

**INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

The use of an approved calculator is expected, where appropriate.

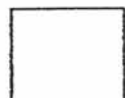
***This booklet consists of 16 printed pages including the cover page.***

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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1. There were 420 athletes at a sports carnival. 288 of them were men. What percentage of the athletes were women? Round off your answer to the nearest whole number.

Ans: \_\_\_\_\_ % [2]



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2. Xylia is  $p$  years old and her mother is 35 years old. Zaini's age is half of the total age of Xylia and her mother. How old would Zaini be in 10 years' time? Express your answer in terms of  $p$ .

Ans: \_\_\_\_\_ years old [ 2 ]

3. Uncle Yong bought  $9\frac{3}{4}$  kg of spinach. He gave  $5\frac{1}{3}$  kg of the spinach to his son. He cooked  $\frac{2}{5}$  of the remaining spinach. How much spinach was left?

Ans: \_\_\_\_\_ kg [ 2 ]



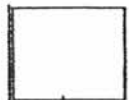
4. Joan and Kelly collected some saga seeds. After Kelly gave Joan  $\frac{1}{8}$  of her saga seeds, they each had 679 saga seeds. How many saga seeds did Joan have at first?

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Ans: \_\_\_\_\_ [ 2 ]

5. Aretha bought some apples at 4 for \$1. She also bought an equal number of pears at 3 for \$1. She paid \$2 less for the apples than for the pears. How many pears did she buy?

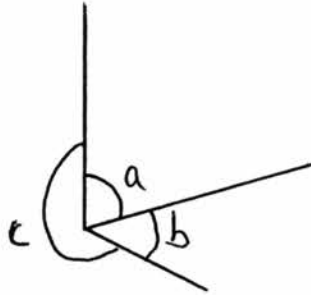
Ans: \_\_\_\_\_ [ 2 ]



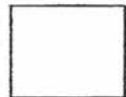
For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. [50 marks]

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6. The figure below is not drawn to scale.  $\angle b$  is  $\frac{2}{3}$  of  $\angle a$ .  $\angle c$  is twice of the sum of  $\angle a$  and  $\angle b$ . Find  $\angle c$ .



Ans: \_\_\_\_\_ [3]



7. The table below shows the parking charges at a car park.

First hour	Free
Second hour	\$1.50
Every subsequent $\frac{1}{2}$ hour or part thereof	\$0.60

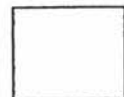
Licia parked her car at the car park and paid \$4.50 in parking charges. For how long did she park her car at the car park?

Ans: \_\_\_\_\_ [3]

8. Book P had 280 pages and Book Q had 427 pages. Polly read  $\frac{4}{5}$  of Book P and  $\frac{2}{7}$  of Book Q. How many pages were left unread in both Book P and Book Q altogether?

Ans: \_\_\_\_\_ [3]

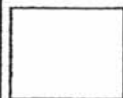
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9. Sue-Ann spent  $\frac{1}{3}$  of her money on lunch. She spent \$30 more than  $\frac{1}{3}$  of her remaining money on groceries. She had \$74.40 left. How much money did she spend on groceries?

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Ans: \_\_\_\_\_ [3]



10. 1 kg of prawns cost \$17.80 and 1 kg of salmon cost \$40.85. Dawson bought  $2\frac{1}{2}$  kg of prawns and 0.6 kg of salmon. He gave the cashier \$100. How much change did he receive?

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Ans : \_\_\_\_\_ [3]



11. A massage chair was sold at \$3020. During a sale, there was a discount of 15%. The first 50 customers were given an additional 5% discount off the discounted price. Celia was the 49<sup>th</sup> customer. How much did she pay for the massage chair in the end?

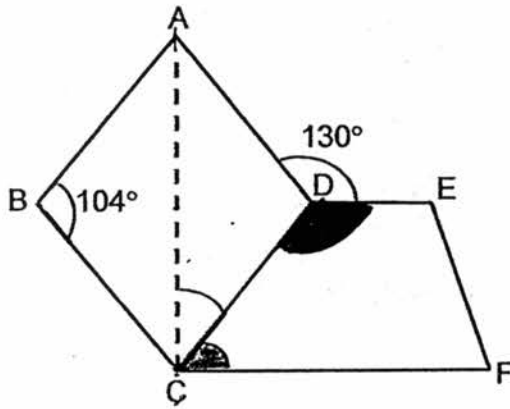
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Ans: \_\_\_\_\_ [ 3 ]

12. The figure below is not drawn to scale. ABCD is a rhombus. CDEF is a trapezium.

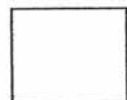
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- a) Find  $\angle ACD$ .
- b) Find  $\angle DCF$ .



Ans : (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]



13. The figures below are formed using rectangular cards.

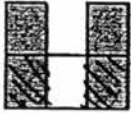


Figure 1

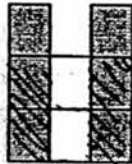


Figure 2

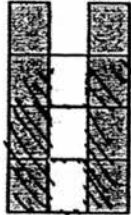


Figure 3



Figure 4

- a) How many rectangles are there in Figure 5?
- b) How many grey rectangles are there in Figure 35?
- c) Which figure is made up of a total of 362 rectangles?

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Ans: (a) \_\_\_\_\_ [ 1 ]


(b) \_\_\_\_\_ [ 1 ]

(c) \_\_\_\_\_ [ 2 ]



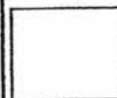
14. A cafe was having the following promotion on meat pies. Auntie Mae bought some meat pies and paid a total of \$257.50. How many meat pies did she have altogether?

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**Buy 1 meat pie for \$9.50**  
**Buy 3 and get \$2 discount**

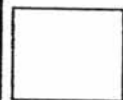
Ans: \_\_\_\_\_ [4]



15. There was 6 ℓ of oil. Harold poured 75% of the oil into some 250-m ℓ and 500-m ℓ bottles. He used 3 more 250-m ℓ bottles than 500-m ℓ bottles. What was the total number of bottles Harold used to pour the oil into?

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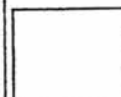
Ans: \_\_\_\_\_ [5]



16. At first, there was  $24\ell$  of water in a cubical tank of edge  $40\text{ cm}$ . Then the tank was filled with water running from a tap. The tank was completely filled after  $5$  minutes. What was the volume of water that flowed from the tap per minute?

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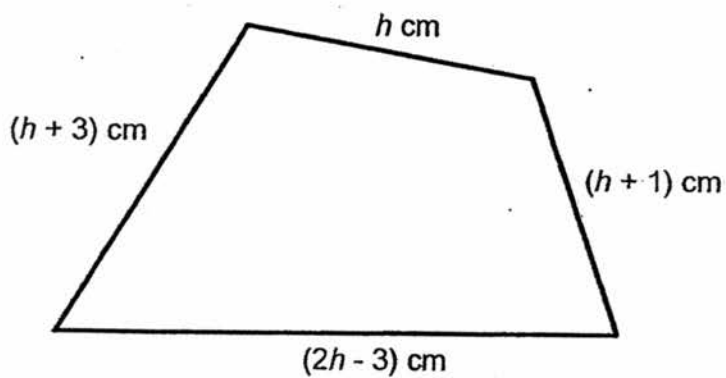
Ans : \_\_\_\_\_ [5]



17. Tiana had 206 cm of wire. She used some of it to make the figure, as shown below.

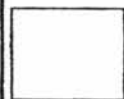
Do not write in this space.

- a) How much of the wire did Tiana use to make the figure? Leave your answer in terms of  $h$ .
- b) If  $h = 17$ , express in ratio, the length of wire used to the length of wire that was not used to make the figure.



Ans : (a) \_\_\_\_\_ [ 2 ]

(b) \_\_\_\_\_ [ 3 ]



18. In a hall, the ratio of the number of adults to the number of children was 3 : 4. The ratio of the number of men to the number of women is 4 : 5.

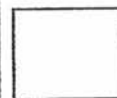
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a) Find the ratio of the number of men to the number of women to the number of children.

b) After some children left the hall,  $\frac{3}{11}$  of the remaining people in the hall were children. There were 432 adults in the hall. How many children had left the hall?

Ans : (a) \_\_\_\_\_ [ 1 ]

(b) \_\_\_\_\_ [ 4 ]



End of Paper 2



YEAR : 2016  
 LEVEL : PRIMARY 6  
 SCHOOL : CHIJ ST NICHOLAS GIRLS'  
 SUBJECT : MATHEMATICS  
 TERM : CA1

Paper 1

Q1	4	Q4	2	Q7	4	Q10	3	Q13	4
Q2	3	Q5	4	Q8	3	Q11	4	Q14	1
Q3	2	Q6	3	Q9	3	Q12	4	Q15	1

Q16 2040 cm

$$\begin{aligned}
 \text{Q17 } 58 + 11g - 26 - 4g &\rightarrow 58 - 26 + 11g - 4g \\
 &\Rightarrow \underline{(32 + 7g)}
 \end{aligned}$$

$$\begin{aligned}
 \text{Q18 } 10.2 \div 30 &\rightarrow 0.34 \\
 0.34 \text{ kg} &\Rightarrow \underline{340 \text{ g}}
 \end{aligned}$$

$$\begin{aligned}
 \text{Q19 } 7\% &= \frac{7}{100} \\
 250 \times \frac{7}{100} &\rightarrow \frac{35}{2} \rightarrow 17\frac{1}{2} \Rightarrow \underline{\$17.50}
 \end{aligned}$$

$$\text{Q20 } 12 + 0.1 \Rightarrow \underline{12.1}$$

$$\text{Q21 } 7\frac{5}{14}$$

$$\begin{aligned}
 \text{Q22 } 400 \div 50 &\rightarrow 8 \\
 8 \times 16 &\Rightarrow \underline{\$128}
 \end{aligned}$$

$$\begin{aligned}
 \text{Q23 } \angle \text{DGF} = \angle \text{DEF} &= 48^\circ \\
 \angle \text{GHF} &\rightarrow 180^\circ - (48^\circ + 39^\circ) = 93^\circ \\
 \angle \text{FHD} &\rightarrow 180^\circ - 93^\circ \Rightarrow \underline{87^\circ}
 \end{aligned}$$

$$\text{Q24 } \frac{5}{8} \div \frac{1}{16} \rightarrow \frac{5}{8} \times \frac{16}{1} \Rightarrow \underline{10 \text{ cups}}$$

$$\text{Q25 } \frac{20w + 21}{11} = \frac{20 \times 5 + 21}{11} = \frac{100 + 21}{11} = \frac{121}{11} \Rightarrow \underline{11}$$

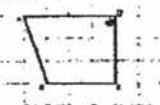
Q26 A

$$\text{Q27 } \frac{56}{160} \times \frac{100}{1} \Rightarrow \underline{35\%}$$

$$\begin{aligned}
 \text{Q28 } e \times 4 + 8 + 7e &\rightarrow 4e + 8 + 7e \\
 &\rightarrow 4e + 7e + 8 \\
 &\Rightarrow \underline{(11e + 8)}
 \end{aligned}$$

Q29  $33 - 9 = 24$   
 $24 \times 3 = 72$   
 $72 + 9 = 81$   
 $8 \times 33 = \underline{264 \text{ cards}}$

Q30



Paper 2

Q1  $420 - 288 = 132$   
 $\frac{132}{420} \times 100 \approx 31.4 \approx \underline{31\%}$

Q2  $(p + 35) \div 2 + 10 = \left(\frac{p+35}{2}\right) + 10 \text{ years old}$

Q3  $\frac{5}{5} - \frac{2}{5} = \frac{3}{5}$   
 $9\frac{3}{4} - 5\frac{1}{3} \rightarrow 4\frac{5}{12}$   
 $4\frac{5}{12} \times \frac{3}{5} \Rightarrow 2\frac{13}{20} \text{ kg}$

Q4  $\frac{8}{8} - \frac{1}{8} = \frac{7}{8}$   
 $7u \rightarrow 679$   
 $1u \rightarrow 679 \div 7 = 97$   
 $6u \rightarrow 97 \times 6 \Rightarrow \underline{582 \text{ saga seeds}}$

Q5 24 pears

Q6  $3u + 2u = 5u$   
 $5u \times 2 = 10u$   
 $10u + 3u + 2u = 15u$   
 $360^\circ \div 15 \rightarrow 24^\circ$   
 $24^\circ \times 10 \Rightarrow \underline{240^\circ}$

Q7  $4.50 - 1.50 = 3$   
 $3 \div 0.6 = 5$   
 $5 \times \frac{1}{2} = \frac{5}{2} = 2\frac{1}{2}$   
 $2\frac{1}{2} + 2 \Rightarrow 4\frac{1}{2} \text{ hours}$

Q8  $\frac{5}{5} - \frac{4}{5} = \frac{1}{5}$  (Book P)  $\rightarrow 280 \times \frac{1}{5} = 56$   
 $\frac{7}{7} - \frac{2}{7} = \frac{5}{7}$  (Book Q)  $\rightarrow 427 \times \frac{5}{7} = 305$   
 $56 + 305 \Rightarrow \underline{361 \text{ pages}}$

Q9  $2u \rightarrow 74.40 + 30 = 104.40$   
 $1u \rightarrow 104.40 \div 2 = 52.20$   
 $52.20 + 30 \Rightarrow \underline{\$82.20}$

- Q10**  $17.80 \div 2 = 8.90$   
 $17.80 \times 2 = 35.60$   
 $35.60 + 8.90 = 44.5$  (prawns)  
 $0.6 = \frac{6}{10}$   
 $40.85 \times \frac{6}{10} = 24.51$  (salmon)  
 $44.5 + 24.51 \rightarrow 69.01$   
 $100 - 69.01 \Rightarrow \underline{\$30.99}$
- Q11**  $100 - 15 = 85$   
 $3020 \times \frac{85}{100} = 2567$   
 $100 - 5 = 95$   
 $2567 \times \frac{95}{100} \Rightarrow \underline{\$2438.65}$
- Q12a**  $\angle ADC = \angle ABC = 104^\circ$   
 $\angle ACD \rightarrow (180^\circ - 104^\circ) + 2 \Rightarrow \underline{38^\circ}$
- Q12b**  $\angle EDC \rightarrow 360^\circ - 104^\circ - 130^\circ = 126^\circ$   
 $\angle DCF \rightarrow 180^\circ - 126^\circ \Rightarrow \underline{54^\circ}$
- Q13a**  $3 \times 5 + 2 \rightarrow 15 + 2 \Rightarrow \underline{17}$
- Q13b**  $35 \times 2 \rightarrow 70$   
 $70 + 2 \Rightarrow \underline{72}$
- Q13c**  $362 - 2 \rightarrow 360$   
 $360 \div 3 \Rightarrow \underline{\text{Figure 120}}$
- Q14**  $257.50 \div 26.50 = 9\frac{38}{53}$   
 $9 \times 26.50 = 238.50$   
 $257.50 - 238.50 = 19$   
 $19 \div 9.50 = 2$   
 $(9 \times 3) + 2 \rightarrow 27 + 2 \Rightarrow \underline{29 \text{ meat pies}}$
- Q15**  $6 \times \frac{75}{100} = 4\frac{1}{2}$   
 $3 \times 250 = 750$   
 $4500 - 750 = 3750$   
 $1 \text{ group} \rightarrow 250 + 500 = 750$   
 $3750 \div 750 = 5$   
 $5 \times 2 \rightarrow 10$   
 $10 + 3 \Rightarrow \underline{13 \text{ bottles}}$
- Q16** Cubical tank  $\rightarrow 40 \times 40 \times 40 = 64000$   
 $64000 \text{ cm}^3 = 64000 \text{ ml} = 64 \ell$   
 $5 \text{ min} \rightarrow 64 - 24 = 40$   
 $1 \text{ min} \rightarrow 40 \div 5 \Rightarrow \underline{8 \ell}$

Q17a  $h + h + 1 = h \times 2 + 1 = 2h + 1$   
 $2h + 1 + 2h - 3 \rightarrow 2h + 2h + 1 - 3 \rightarrow 4h - 2$   
 $4h - 2 + h + 3 \rightarrow 4h + h - 2 + 3 \Rightarrow \underline{(5h + 1) \text{ cm}}$

Q17b When  $h = 17$   
 $5h + 1 \rightarrow 5 \times 17 + 1 \rightarrow 86$   

wire used	:	not used
+ { 86	:	120 } ÷
2 { 43	:	60 } 2

Answer  $\Rightarrow \underline{43 : 60}$

Q18a  $4 + 5 = 9$   

Adt	:	Chd
x { 3	:	4 } x
3 { 9	:	12 } 3

Answer  $\Rightarrow \underline{4 : 5 : 12}$

Q18b  $8u \rightarrow 432$   
 $1u \rightarrow 432 \div 8 = 54$   
 $3u \rightarrow 3 \times 54 = 162$  (children in the end)  
 $9u \rightarrow 432$   
 $1u \rightarrow 432 \div 9 = 48$   
 $12u \rightarrow 48 \times 12 = 576$   
 $576 - 162 \Rightarrow \underline{414 \text{ children}}$