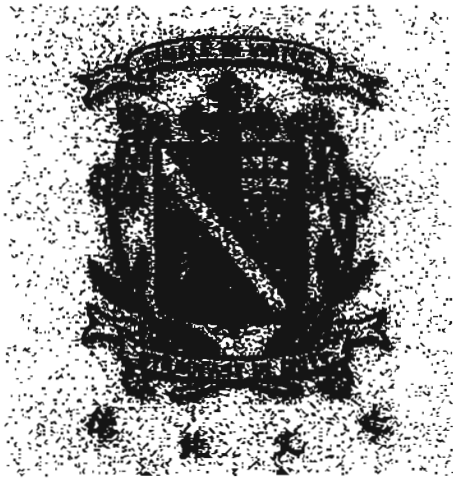


Name : _____ ()

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 6 Mathematics

2011 Continual Assessment One

Paper 1

Booklet A

28 February 2011

15 QUESTIONS

20 MARKS

TOTAL TIME FOR BOOKLETS A AND 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 6 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)

1) Which one of the following numbers, when rounded off to the nearest ten, is 75 600?

(1) 75 616

(2) 75 610

(3) 75 606

(4) 75 604

2) How many eighths are there in $7\frac{1}{2}$?

(1) 15

(2) 35

(3) 60

(4) 284

3) Express $\frac{8}{29}$ as a decimal correct to 2 decimal places.

(1) 0.27

(2) 0.28

(3) 3.62

(4) 3.63

4) Akita has thrice as many toy cars as Braden. Claren has 4 times as many toy cars as Akita. What is the ratio of the number of toy cars Braden has to the number of toy cars Claren has?

(1) 1 : 4

(2) 3 : 1

(3) 4 : 3

(4) 1 : 12

5) Julius had \$280. He gave \$60 to his sister and found that he still had twice as much as what his sister had finally. How much did his sister have at first?

(1) \$50

(2) \$110

(3) \$170

(4) \$380

6) A seamstress can sew 10 identical skirts in 5 days. At this rate, how long will she take to sew 160 such skirts?

(1) 16

(2) 32

(3) 50

(4) 80

7) What is the missing fraction in the sequence below?

$$\frac{1}{5}, \frac{3}{10}, \frac{1}{2}, \boxed{?}, 1\frac{1}{5}$$

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

(2) $\frac{2}{5}$

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

(4) $\frac{9}{10}$

8) Uncle Jed had some eggs. He sold $\frac{3}{5}$ of them on Thursday and $\frac{2}{3}$ of the remainder on Friday. He found that he had sold 75 more eggs on Thursday than on Friday. How many eggs did he sell altogether?

(1) 135

(2) 195

(3) 225

(4) 285

9) The ratio of Jillisa's age to Tammy's age is 5 : 4. Jillisa is 5 years older than Tammy. What is the ratio of Tammy's age to Jillisa's age in 15 years' time?

(1) 4 : 5

(2) 5 : 4

(3) 7 : 8

(4) 8 : 7

10) Alvina spent 20% of her money on a pair of shoes and 75% of the remainder on a dress. What percentage of her money was left?

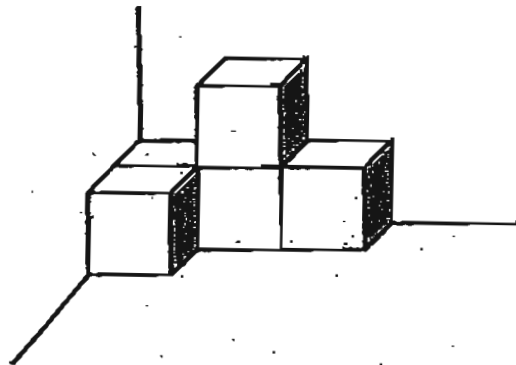
(1) 20%

(2) 55%

(3) 60%

(4) 95%

11) The solid figure below is made up of cubes of the same size that are glued together. What is the least number of cubes that have to be added to the solid to form a cuboid?



(1) 3

(2) 5

(3) 7

(4) 9

12) A jug was 78% filled with water. After 126 ml of water was poured out, the jug was $\frac{3}{5}$ filled. How much water was there in the jug at first?

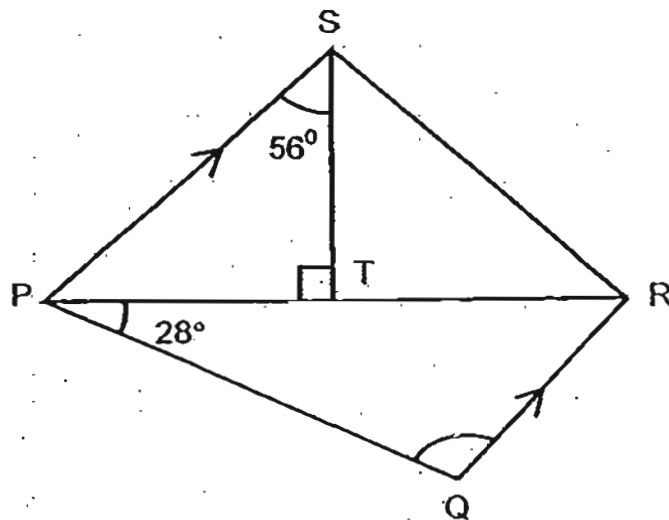
(1) 84 ml

(2) 189 ml

(3) 546 ml

(4) 700 ml

13) The figure below is not drawn to scale. Find $\angle PQR$.



(1) 62°

(2) 96°

(3) 118°

(4) 152°

14) A shopkeeper poured 8 bags of rice each with a mass of 2.4 kg into a container which had 0.3 kg of rice in it. He then packed the rice into bags each containing 0.75 kg of rice. How much would the shopkeeper receive if he sold each bag at \$2.10?

(1) \$40.32

(2) \$54.60

(3) \$55.60

(4) \$56.06

15) Royston bought a microwave oven for \$157.25 at a discount of 15%. What is the original price of the microwave oven?

(1) \$133.60

(2) \$172.25

(3) \$180.80

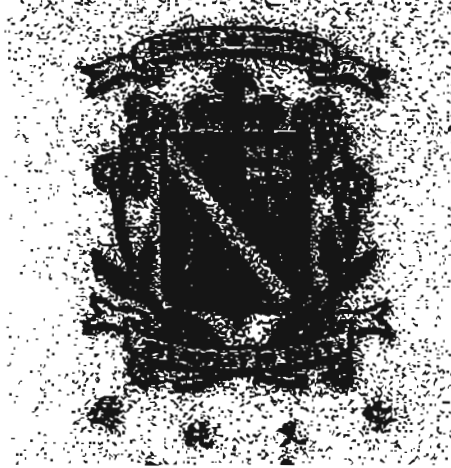
(4) \$185.00

End of Booklet A

Name: _____ (:)

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 6 Mathematics

2011 Continual Assessment One

Paper 2

28 February 2011

Paper 1	40
Paper 2	55 60
Total Mark	95 100

Parent's/Guardian'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 14 printed pages including the cover page.

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]

Do not write in this space.

- 1) The number of children in Twinkle Tots Childcare Centre is less than 80. If they are divided into groups of 14, 3 children will be left out. If they are divided into groups of 16, 9 children will be left out. How many children are there in the childcare centre?

Ans : _____

- 2) Ruth mixed $3\frac{4}{5}$ l of mango syrup with $8\frac{1}{4}$ l of water. Then she poured the mixture into six $\frac{3}{4}$ l bottles and gave the remainder to Tessa. How many litres of the mixture did Tessa receive?

Ans : _____ l



- 3) Rubber hose X is 3.5 m longer than Rubber hose Y. Rubber hose Z is 8.74 m shorter than Rubber hose X. The total length of the three hoses is 168.66 m. Mr Garden buys Rubber hose Y at 40¢ per metre. How much must he pay for Rubber hose Y?

Do not write in this space.

Ans : \$ _____

- 4) The usual price of a skirt was \$24. Before Christmas, it was sold at a discount of 40%. During the post-Christmas sale, the price of the skirt was further reduced by 15% on the discounted price. How much was the skirt during the post-Christmas sale?

Ans : \$ _____

- 5) A tap took 12 minutes to fill up a tank with a capacity of 8 ℓ. At the same rate, how long would it take to fill up 60% of another tank with a capacity of 20 ℓ?

Ans : _____ min



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

[50 marks]

Do not write in this space.

- 6) Mrs Ronald has 3 sacks of coffee beans weighing 56 kg, 96 kg and 120 kg. She wants to repack all the coffee beans into smaller packets of equal mass. Without mixing the coffee beans from the three sacks and without any leftover or wastage,

(a) what is the greatest possible mass of each packet?

(b) How many packets of coffee beans will she get in all?

Ans: (a) _____ (2 m)

(b) _____ (1m)



Do not
write in
this space.

- 7) Mrs Ravi distributed some sweets equally among 9 boys and 11 girls. Each boy gave $\frac{2}{3}$ of what he received to the girls. As a result, the girls received a total of 1020 sweets.

- (a) How many sweets did each boy have left?
(b) What was the total number of sweets distributed by Mrs Ravi?

Ans: (a) _____ (2 m)

(b) _____ (1m)

-
- 8) A box contains hotdog buns, custard buns and curry buns. The ratio of the number of hotdog buns to the number of custard buns is 7 : 2. The number of curry buns is $\frac{5}{6}$ of the total number of hotdog and custard buns. After some hotdog buns were sold, there were an equal number of hotdog buns and custard buns. If there were 276 buns in the end, how many hotdog buns were sold?

Ans: _____ (3 m)

- 9) Construct a rhombus PQRS of side ^{6.4}~~6.4~~ cm and $\angle PQR = 106^\circ$. (3m)

Do not
write in
this space

P _____ Q

- 10) Mitchell spent some money on a frying pan and $\frac{1}{3}$ of the remainder on a cooking pot. She then had \$128 left. The cost of the cooking pot was $\frac{4}{7}$ of the cost of the frying pan.

- (a) How much did the cooking pot cost?
(b) How much did she spend altogether?

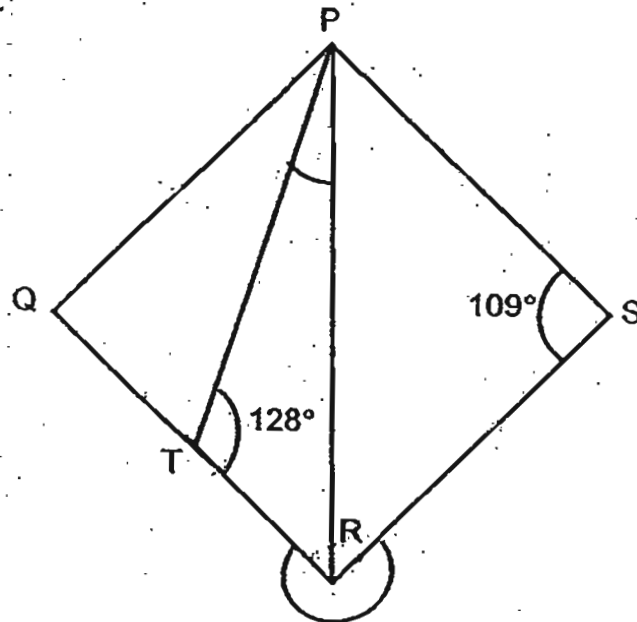
Ans: (a) _____ (2m)

(b) _____ (1m)

11) The figure below is not drawn to scale. Given that PQRS is a rhombus, find

(a) $\angle TPR$;

(b) $\angle TRS$.



Ans: (a) : _____ (2m)

(b) : _____ (1m)

Do not
write in
this space.

12) Given that $\triangle + \triangle + \star + \star = 66$ and

$\square + \square + \star + \triangle = 65$

What is the value of $\square + \star + \triangle$?

Do not
write in
this space.

Ans: _____ (4m)

- 13) Lauren and Jude went shopping and they spent the same amount of money. Lauren bought 6 dresses at \$68.90 each and a pair of jeans for \$56.60. Jude spent 0.6 of the amount spent by Lauren on a DVD player. After paying for a mobile phone, Jude had \$23.85 left. How much did he pay for the mobile phone?

Do not
write in
this space.

Ans: _____ (4m)



- 14) Three bags A, B and C had 189 beads altogether. Some beads were transferred from Bag A to Bag B and the number of beads in bag B became thrice of its original number. Then some beads were transferred from Bag B to Bag C and the number of beads in Bag C became thrice its original number. As a result, the number of beads in the 3 bags was equal. How many beads were there in Bag A at first?

Do not
write in
this space.

Ans: (a) _____ (2m)

(b) _____ (2m)

- 15) Darren and Yenni both had a mango stall. On a particular day, Darren sold 85% of the number of mangoes Yenni sold. If both of them sold 555 mangoes altogether, how many more mangoes did Yenni sell than Darren?

Do not
write in
this space.

Ans: _____ (5m)

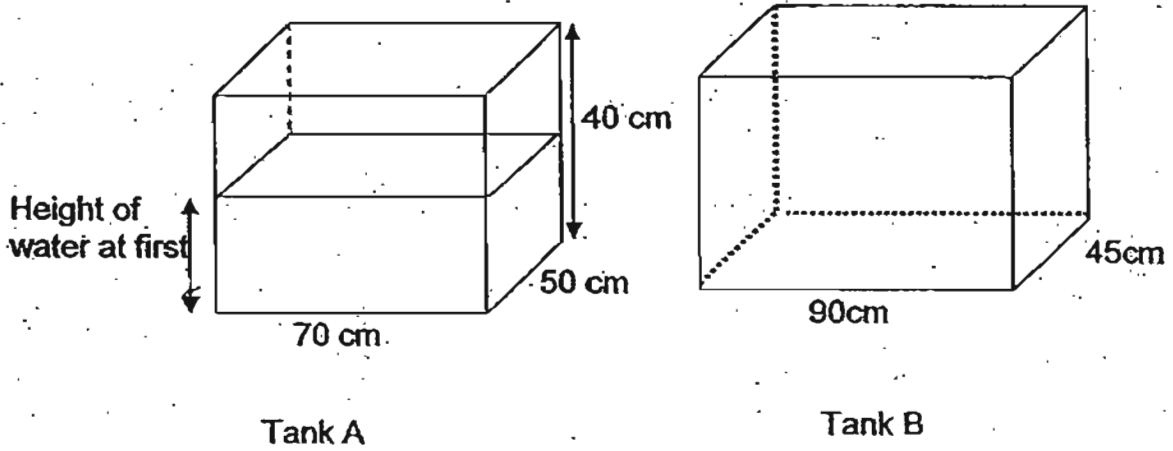


16) Tank A was 60% filled with water. Some of the water was then poured into Tank B which was empty. The height of the water in Tank B was half of the height of the water left in Tank A.

Do not write in this space.

(a) What was the height of the water in Tank B?

(b) What was the volume of water left in Tank A? Leave your answer in litres.



Ans: (a) _____ (3m)

(b) _____ (2m)



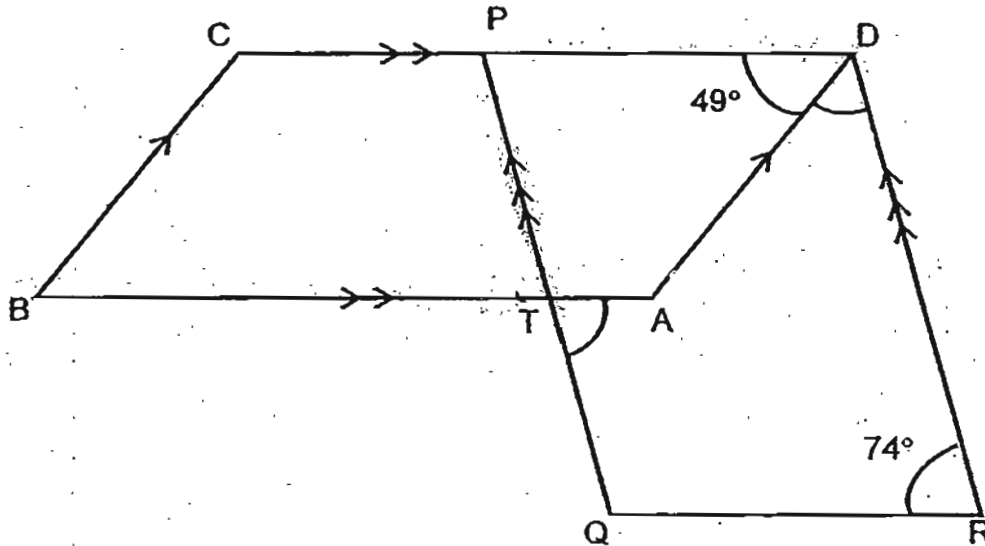
17) The figure below is not drawn to scale, ABCD and PQRD are parallelograms.

Do not write in this space.

(a) Find $\angle ADR$.

(b) Find $\angle QTA$.

(c) Name an angle in the figure which is equal to $\angle BCD$.



Ans: (a) _____ (1m)

(b) _____ (3m)

(c) _____ (1m)



- 18) Study the figures carefully.
Each figure is made up of sticks, circles and triangles.

Do not
write in
this space.

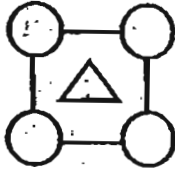


Figure 1

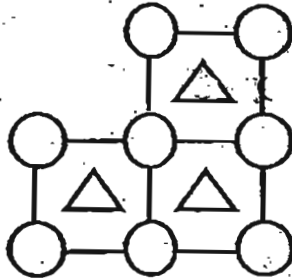


Figure 2

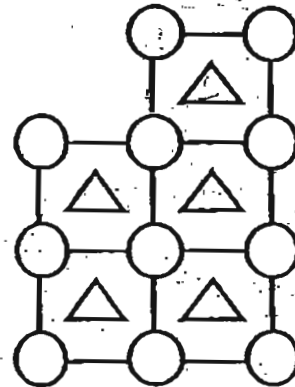


Figure 3

- (a) How many circles will there be in Figure 38?
 (b) In which figure will there be 123 triangles?
 (b) How many sticks will be needed to form Figure 150?

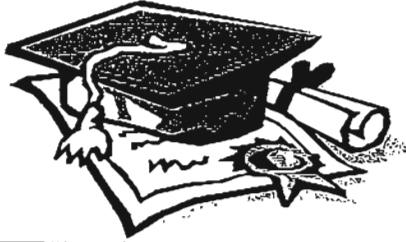
Ans: a) _____ (2m)

b) _____ (2m)

_____ (1m)



End of Paper



ANSWER SHEET

EXAM PAPER 2011

SCHOOL : CHIJ PRIMARY
SUBJECT : PRIMARY 6 MATHEMATICS

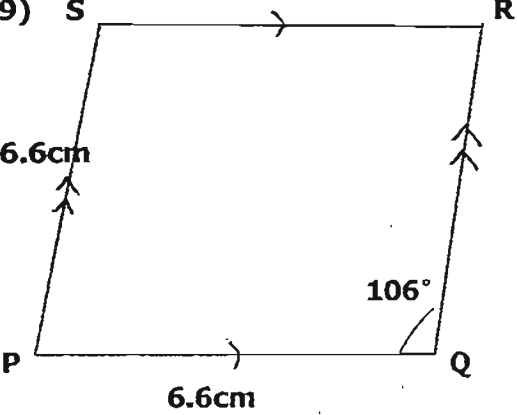
TERM : CA1



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

Paper 2

1)73	2) $3\frac{4}{5} + 8\frac{1}{4} = 12\frac{1}{20}$ $6 \times \frac{3}{4} = 4\frac{1}{2}$ $12\frac{1}{20} - 4\frac{1}{2} = 7\frac{11}{20} = 7.55L$
3) $8.74 - 3.5 = 5.24$ $5.24 + 8.74 = 13.98$ $168.66 - 13.98 = 154.68$ $154 \div 3 = 51.56$ $51.56 + 5.24 = 56.8$ $56.8 \times 40c = \$22.72$ He must pay \$22.72	4)100% - 40% = 60% $24 \times 60\% = 14.40$ 100% - 15% = 85% $14.40 \times 85\% = 12.24$ It was \$12.24
5) $20 \times 60\% = 12$ $12 \div 8 = 1.5$ $12 \times 1.5 = 18min$	6)a)8kg b) $120 \div 8 = 15$ $56 \div 8 = 7$ $96 \div 8 = 12$ $12 + 7 + 15 = 34$ She will get 34 packets in all
7)a)20 b)1200	8) $4u + 4u + 15u = 23u$ $276 \div 23 = 12$ $14u - 4u = 10u$ $10 \times 12 = 120$ 120 buns were sold.

<p>9) </p>	<p>10)a) $\\$128 \div 2 = \\64 $\\$64 \times 1 = \\64 It cost \$64 b) $\\$64 \div 4 = \\16 $\\$16 \times 7 = \\112 $\\$112 + \\$64 = \\$176$ She spent \$176</p>
<p>11)a) $180^\circ - 109^\circ = 71^\circ$ $71^\circ \div 2 = 35.5^\circ$ $180^\circ - 35.5^\circ - 128^\circ = 16.5^\circ$ It is 16.5° b) $35.5^\circ + 35.5^\circ = 71^\circ$ $360^\circ - 71^\circ = 289^\circ$ $\angle TRS$ is 289°</p>	<p>12) $66 \div 2 = 33$ ($\triangle \star$) $65 - 33 = 32$ $32 \div 2 = 16$ (\square) $16 + 33 = 49$</p>
<p>13) $6 \times \\$68.90 = \\413.40 $\\$413.40 + \\$56.60 = \\$470$ $\\$470 \times 0.6 = \\282 $\\$470 - \\$282 = \\$188$ He paid \$188</p>	<p>14) $189 \div 3 = 63$ $63 \div 3 = 21$ $21 \times 2 = 42$ $63 + 42 = 105$ $105 \div 3 = 35$ $35 \times 2 = 70$ $63 + 70 = 133$ A has 133 beads</p>
<p>15) $100\% - 85\% = 15\%$ $555 \div 15 = 37$ $100\% - 85\% = 15\%$ $15 \times 3 = 45$ She sold 45 more than her.</p>	<p>16)a) $40 \times 50 \times 70 \times 60\% = 84000$ $84000 \div 50 \div 70 = 24$ $24 \div 2 = 12$ It is 12cm. b) $12 \times 90 \times 45 = 48.6L$ It is 48.6L</p>
<p>17)a) $\angle DRQ = \angle DPT = 74^\circ$ $180^\circ - 74^\circ - 49^\circ = 57^\circ$ $\angle ADR$ is 57° b) $180^\circ - 74^\circ = 106^\circ$ $180^\circ - 106^\circ = 74^\circ$ $\angle ATQ = \angle PTB = 74^\circ$ $\angle QTA$ is 74° c) $\angle BCD = \angle BAD$ (opposite angles) It is $\angle BAD$</p>	<p>18)a) $38 \times 3 + 2 = 116$ There will be 116 circles b) $123 + 1 = 124$ $124 \div 2 = 62$ It is Figure 62 c) $150 \times 5 = 750$ 750 sticks are needed.</p>