

Name : _____ ()

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5 Mathematics

2011 Semestral Assessment One

Paper 1

Booklet A

10 May 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 (OAS). [20 marks]

1) In which of the following is the digit 4 in the ten thousands place?

~~(1)~~ 1 904 283

~~(2)~~ 1 809 423

~~(3)~~ 1 409 823

~~(4)~~ 1 049 823

2) $1\,150\,000 \div 50 =$ _____ hundreds.

(1) 23

(2) 230

(3) 2 300

(4) 23 000

3) In $\boxed{?} + 3\frac{3}{4} = 9\frac{5}{7}$, what is the missing fraction?

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

(2) $5\frac{27}{28}$

(3) $6\frac{1}{28}$

(4) $6\frac{2}{3}$

4) Find the value of $\frac{5}{8} \div 4$.

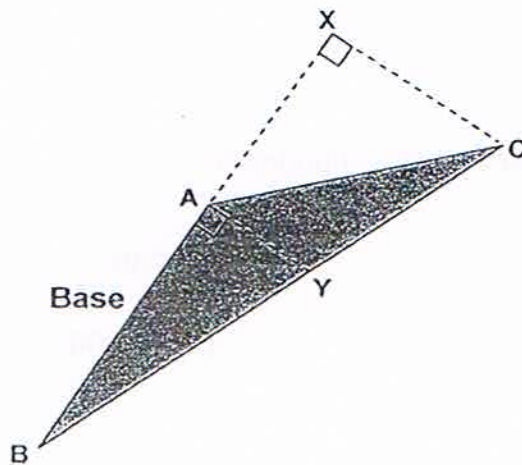
(1) $2\frac{1}{2}$

(2) $1\frac{1}{4}$

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

(4) $\frac{5}{32}$

5) The figure below is not drawn to scale. What is the height of Triangle ABC with the given base AB?



(1) AY

(2) AC

(3) CX

(4) BC

6) In $3 : 8 = 21 : G$, what is the value represented by G?

(1) 7

(2) 26

(3) 40

(4) 56

7) Rino had \$4 250. He spent \$144 on a watch. Then he spent 12 times of what he spent on the watch on a camera. How much money did he have left?

(1) \$1872

(2) \$2378

(3) \$2522

(4) \$4094

8) Lenny and Stephy ate a box of sweets. The ratio of the number of sweets Lenny ate to the number of sweets Stephy ate is 5 : 8. If Stephy ate 40 sweets, how many sweets did Lenny eat?

(1) 24

(2) 25

(3) 40

(4) 64

9) Aunt Betty made some cupcakes. $\frac{1}{3}$ of them were strawberry cupcakes and $\frac{5}{9}$ of them were blueberry cupcakes. The remaining 8 cupcakes were cherry cupcakes. How many cupcakes did Aunt Betty make in all?

(1) 16

(2) 27

(3) 36

(4) 72

- 10) Mrs Scott bought 5 bags of salt. Each bag of salt had a mass of $\frac{5}{8}$ kg. She gave some salt to her neighbour and had $\frac{5}{6}$ kg of salt left. How much salt did her neighbour receive?

(1) $1\frac{11}{24}$ m

(2) $2\frac{7}{24}$ kg

(3) $3\frac{13}{24}$ kg

(4) $3\frac{23}{24}$ kg

- 11) The base of a triangle is 24 cm. It is 6 times of its height. Find the area of the triangle.

(1) 48 cm²

(2) 72 cm²

(3) 96 cm²

(4) 144 cm²

- 12) Joseph is 8 years old now. His aunt is 4 times as old as he is. What will be the ratio of Joseph's age to his aunt's age in 2 years' time?

(1) 2: 1

(2) 5: 3

(3) 1: 4

(4) 5: 17

- 13) Marty had 672 bottles of juice. He sold $\frac{1}{4}$ of them to Jeremy and $\frac{2}{3}$ of the remainder to Lincoln. How many bottles did he sell to Lincoln?

(1) 168

(2) 224

(3) 336

(4) 448

- 14) Evaluate $81 - 9 \div 3 \times 12$.

(1) 2

(2) 45

(3) 288 = 45 #

(4) 936

- 15) The breadth of a rectangle is $\frac{2}{9}$ m. Its length is 3 times as long as its breadth. What is the area of the rectangle?

(1) $\frac{4}{243}$ m²

(2) $\frac{4}{27}$ m²

(3) $\frac{2}{3}$ m²

(4) $1\frac{7}{9}$ m²

End of Booklet A

Name : _____ ()

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5 Mathematics

2011 Semestral Assessment One

Paper 1

Booklet B

10 May 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 7 printed pages including the cover page.

Questions 16 to 25 carry 1 mark each. Write down 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

16) What is the value of $200\,000 + 7\,000 + 150 + 9$?

Ans : _____

17) Express $10\frac{7}{8}$ as a decimal.

Ans : _____

18) Kumaran cut a wire into 9 equal pieces and each piece was $\frac{2}{5}$ m. What was the length of the original piece of wire? Express your answer as a mixed number.

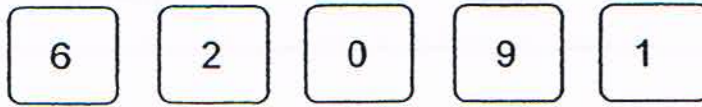
Ans : _____ m

19) Find the ratio of 32 cm to 1 m. Leave your answer in its simplest form.

Ans : _____

- 20) Use all the digits shown below to form the smallest 5-digit number. Then round off the 5-digit number to the nearest thousand.

Do not
write in
this space



Ans : _____

- 21) 1 990 tens more than 1 043 208 is _____.

Ans : _____

- 22) Amanda bought 14 pies of the same size. She gave an equal amount of the pies to 9 friends. How many pies did she give each friend? Express your answer as a mixed number.

Ans : _____

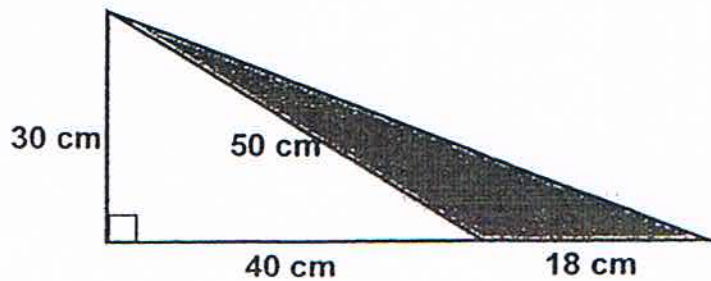


- 23) 5 children shared $\frac{4}{5}$ of a pizza equally. What fraction of the pizza did each child receive?

Do not write this s

Ans : _____

- 24) The figure below is not drawn to scale. What is the area of the shaded triangle?



Ans : _____ cm²

- 25) The total mass of 4 000 identical exercise books is 1 460 000 g. What is the mass of each exercise book?

Ans : _____ g

Questions 26 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. [10 marks]

Do r
write
this :

26) Roy jogs $2\frac{1}{5}$ km every day. Alex jogs $1\frac{1}{4}$ km less than Roy every day.

What is the total distance the two of them jog in a day?

Ans : _____ km

27) A bag contains 35 balls. 15 of them are pink and the rest are yellow. What is the ratio of the number of yellow balls to the total number of balls? Leave your answer in the simplest form.

Ans : _____



Do
write
this

- 28) A basket contains mangoes, oranges and pears. $\frac{1}{7}$ of the fruits are mangoes. $\frac{1}{3}$ of the remaining fruits are oranges and the rest are pears.

There are 24 fewer oranges than pears. How many mangoes are there in the basket?

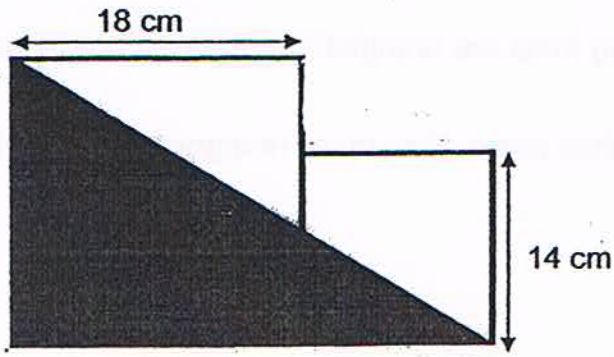
Ans : _____

- 29) The mass of a container, completely filled with biscuits, is $1\frac{1}{10}$ kg. When it is $\frac{1}{3}$ filled with biscuits, its mass is $\frac{7}{10}$ kg. What is the mass of the empty container?

Ans : _____ kg

30) The figure is made up of 2 squares. Find the area of the shaded portion.

Do not
write
this side



Ans : _____ cm²

End of Paper 1

Name: _____ (.)

Class : Primary 5 . _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5 Mathematics

2011 Semestral Assessment One

Paper 2

10 May 2011

Parent's/Guardian's Signature

Paper 1	40
Paper 2	60
Total Mark	100

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) Karina has 5 times as many stamps as Dorothy. How many stamps must Karina give Dorothy so that each of them has 1245 stamps?

Ans : _____

- 2) Joline had 1512 ribbons. $\frac{5}{8}$ of the ribbons are red, $\frac{1}{7}$ of the remaining ribbons are blue and the rest are green. How many green ribbons are there?

Ans : _____



- 3) Addy had $18\frac{1}{8}\ell$ of water in a pail. He transferred $3\frac{3}{5}\ell$ of water into Container P and another 7ℓ into Container Q. Then he poured half of the remaining amount of water in the pail into a jar. How much water did he pour into the jar?

Do not write in this space.

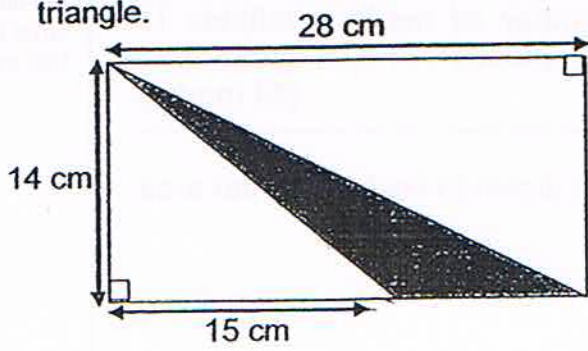
Ans : _____ ℓ

- 4) Mrs Seow bought 7 bags of vegetables, each of mass 14 kg. She used up all the vegetables in 3 weeks. If she used the same amount of vegetables each day, how many kilograms of vegetables did she use each day? Express your answer as a decimal correct to 2 decimal places.

Ans : _____ kg

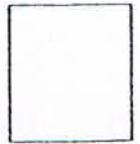


- 5) The figure below is not drawn to scale. Find the area of the shaded triangle.



Do not write in this space.

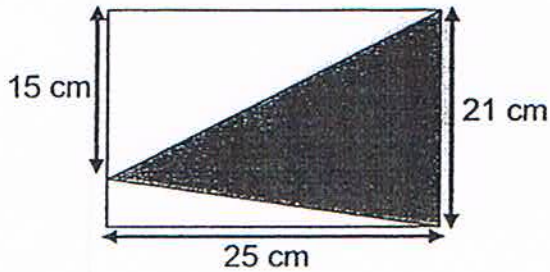
Ans : _____ cm²



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) The figure below shows a rectangle, not drawn to scale. Find the area of the unshaded parts.



Ans: _____ (3 m)

- 7) Carrie spent $\frac{1}{6}$ of her money on a VCD player. She gave \$9534 to her mother and had $\frac{1}{4}$ of her original sum of money left. How much money did she have at first?

Ans: _____ (3 m)



- 8) The area of the shaded part to the area of the unshaded part in a square is 3: 1. The area of the shaded part is 48 cm^2 . Find the total area of the square.

Do not
write in
this space

Ans: _____ (3 m)

- 9) Mrs Adams wanted to distribute her stickers equally among her pupils. If she was to give them 15 stickers each, she would have 4 to spare. If she was to give them 20 stickers each, she would be short of 36. How many stickers did she have?

Ans: _____ (3 m)



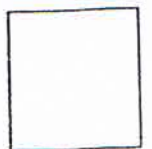
- 10) The total amount of money saved by Johan and Billy in a week was \$182. Johan saved \$8 every day. What was the ratio of Johan's savings each day to Billy's savings each day? Leave your answer in the simplest form.

Do not write in this space.

Ans: _____ (3 m)

- 11) Halim bought a total of 332 notebooks and pens at a stationery fair. The pens were \$4 each and every 3 notebooks cost \$2. If he spent a total of \$498, how many notebooks did he buy?

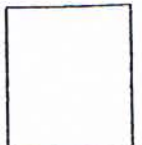
Ans: _____ (3 m)



- 12) Chinara wanted to form a rectangle and a square using a piece of wire. She used $\frac{2}{3}$ of the wire to form the rectangle. Then she used $\frac{1}{6}$ of the remaining wire to form the square of side 25 cm. What was the original length of the wire?

Do not
write in
this space

Ans: _____ (4 m)



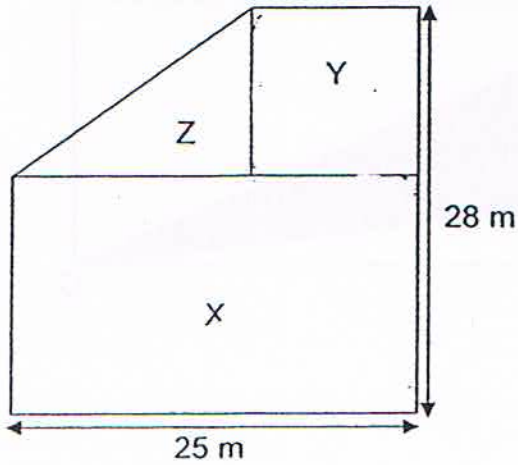
- 13) Alwyn, Corriane, Keith and Zavier have a total of 1026 marbles. If Corriane gives away 60 of her marbles, she will have $\frac{1}{4}$ of the marbles Alwyn has. If Keith buys another 150 marbles, he will have $\frac{1}{2}$ the number of marbles Alwyn has. If Zavier doubles what he has, he will have the same number of marbles as Alwyn. How many marbles does Corriane have at first?

Do not
write in
this space.

Ans: _____ (4 m)

- 14) The figure below shows the floor plan of Mr Lim's office. Mr Lim plans to lay a carpet on the floor in his office. The floor plan comprises a square Y, a rectangle X and a right-angled triangle Z. The area of square Y is 64 m^2 . Given that it costs $\$13.30$ per m^2 to carpet the floor, how much would Mr Lim need to pay to carpet the floor of the whole office?

Do not write in this space

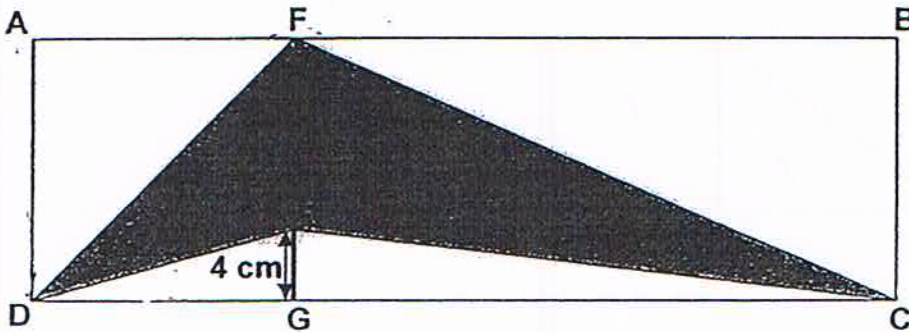


Ans: _____ (4 m)



- 15) The figure below, not drawn to scale, is made up of square AFGD and rectangle FBCG. The ratio of the length of EG to the length of EF is $1 : 3$. The ratio of the length of BC to the length of FB is $1 : 2$. Find the total area of the unshaded parts.

Do not write in this space.



Ans: _____ (5 m)

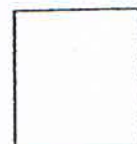


- 16) There are some pupils in the hall. $\frac{3}{8}$ of the pupils are boys. $\frac{11}{15}$ of the girls wear spectacles. If there are 12 more girls than boys,
- what fraction of all the pupils are girls who wear spectacles?
 - how many girls do not wear spectacles?

Do not
write in
this space.

Ans: (a) _____ (2 m)

(b) _____ (3 m)



17) At first, Wendell had twice as many balls as Fyonna. After Wendell sold some of his balls, Fyonna had twice as many balls as he had. Wendell sold each ball for \$6 and for every 4 balls that were sold, he received a bonus of \$5.

Do not write in this space.

- a) Given that Wendell received \$1218 in all from the sale of the balls, how many balls did he sell altogether?
- b) How many balls did Wendell have at first?

Ans: (a) _____ (3 m)

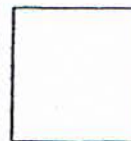
(b) _____ (2 m)



- 18) A sum of money was awarded to a group of winners who had participated in a contest. $\frac{2}{5}$ of the winners were awarded \$512 each. $\frac{5}{6}$ of the remaining winners were awarded \$1024 each. The remaining 21 winners were awarded \$21 505 in all. What was the sum of money awarded to all the winners?

Do not
write in
this space.

Ans: _____ (5 m)



End of Paper 2



ANSWER SHEET

EXAM PAPER 2011

SCHOOL : CHIJ
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA1

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

- 16) 207159 17) 10.875 18) $3\frac{3}{5}m$ 19) 8:25 20) 10000
- 21) 1063108 22) $1\frac{5}{9}$ 23) $\frac{4}{25}$ 24) 270cm² 25) 365g
- 26) $3\frac{3}{20}km$ 27) 4:7 28) 12 29) $\frac{1}{2} kg$ 30) 288cm²

Paper 2

1) $3u \rightarrow 1245$
 $1u \rightarrow 415$
 $415 \times 2 = 830$

2) $1512 \div 8 = 189 (1/8)$
 $189 \times 3 = 567$ (remaining)
 $567 \div 7 = 81 (1/7)$
 $81 \times 6 = 486$

3) $3\frac{3}{5} + 7 = 10\frac{3}{5}$
 $18\frac{1}{8} - 10\frac{3}{5} = 7\frac{21}{40}$ (left)
 $7\frac{21}{40} \div 2 = 3\frac{61}{80}L$

4) $14 \times 7 = 98$
 $98 \div 3 = 32\frac{2}{3}$ (a week)
 $32\frac{2}{3} \div 7 = 4\frac{2}{3}$ (a day)
 ≈ 4.67

5) $28 - 15 = 13$
 $\frac{1}{2} \times 3 \times 14 = 91cm^2$

6) $\frac{1}{2} \times 25 \times 21 = 262.5$ (tri)
 $25 \times 21 = 525$ (whole rect.)
 $525 - 262.5 = 262.5$
The area of the unshaded parts is 262.5cm²

7) $\$9534 \div 7 = \1362 (1u)
 $\$1362 \times 12 = \16344
She had \$16344 at first.

8) $48 \div 3 = 16$ (1u)
 $16 \times 4 = 64$
The total area of the square is 64cm²

9) No. of pupils	x15+4	x20-36	check
10	154	164	x
15	229	264	x
8	124	124	✓

$124 - 4 = 120$
 $120 \div 15 = 8$
 $124 + 36 = 160$
 $160 \div 20 = 8$

Ans: 124

10) $\$8 \times 7 = \56 (Johan a week)

$\$182 - \$56 = \$126$

$\$126 \div 7 = \18 (Billy a day)

J : B

8 : 18

= 4 : 9

The ratio is 4:9

11) No. of Note bk	(3 for \$2) Amt	No. of pens	(\$4) Amt	Total no. of nb+pens	(\$498) total Amt	✓/x
300	\$200	32	\$128	332	\$328	x
270	\$180	62	\$248	332	\$428	x
264	\$176	68	\$272	332	\$448	x
255	\$170	77	\$308	332	\$478	x
249	\$166	83	\$332	332	\$498	✓

He bought 249 notebook.

12) $25\text{cm} \times 4 = 100\text{cm}$ (1/6)

$100\text{cm} \times 6 = 600\text{cm}$ (remaining \rightarrow 1/3)

$600\text{cm} \times 3 = 1800\text{cm}$

The original length of the wire is 1800cm.

13) $1026 - 60 + 150 = 1116$

$1116 \div 9 = 124$ (1u)

$124 + 60 = 184$

Corriane had 184 marbles at first.

14) $\sqrt{64} = 8$

$25\text{m} - 8\text{m} = 17\text{m}$

$28\text{m} - 8\text{m} = 20\text{m}$

$25 \times 20 = 500$ (X)

$\frac{1}{2} \times 8 \times 17 = 68$ (Z)

$500 + 68 + 64 = 632$

$632 \times \$13.30 = \8405.60

Mr Lim would need to pay \$8405.60

15) $4 \times 3 = 12$ (EF)

$12\text{cm} + 4\text{cm} = 16\text{cm}$ (BC)

$16\text{cm} \times 2 = 32\text{cm}$ (FB)

$\frac{1}{2} \times 16 \times 16 = 128$ (a)

$\frac{1}{2} \times 16 \times 4 = 32$ (b)

$\frac{1}{2} \times 32 \times 4 = 64$ (d)

$128 + 32 + 256 + 64 = 480$

The total area of the unshaded parts is 480cm²

16)a) $5u - 3u = 2u$ (diff)

$2u \rightarrow 282$

$1u \rightarrow 141$

$141 \times 5 = 705$ (girls)

$11/15 \times 5/8 = 11/24$

11/24 of the pupils are girls who wear spectacles.

b) $705 \div 15 = 47$ (1/15)

$1 - 11/15 = 4/15$ (girls that don't wear specs)

$47 \times 4 = 188$

188 girls do not wear spectacles.

17)a) $1218 \div 29 = 42$

$42 \times 4 = 168$

Wendell sold 168 balls altogether.

b) $168 \div 3 = 56$ (1u)

$56 \times 4 = 224$

Wendell had 224 balls at first.

18) $1u \rightarrow 21$

$4u \rightarrow 84$ (\$512 each)

$5u \rightarrow 105$ (\$1024 each)

$\$512 \times 84 = \43008

$\$1024 \times 105 = \107520

$\$107520 + \$43008 = \$150528$

$\$150528 + \$21505 = \$172033$

The total sum of money awarded is \$172033.