

Name : _____ ()

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5 Mathematics

2012 Continual Assessment 2

Paper 1

Booklet A

23 August 2012

**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 or 4) on the Optical Answer Sheet (OAS). (20 marks)

- 1) 5 boys share 8 identical pancakes equally. What fraction of the pancakes does each boy receive?

1) $\frac{3}{8}$

2) $\frac{5}{8}$

3) $1\frac{1}{8}$

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

- 2) $6\frac{2}{3}$ is not equivalent to _____.

1) $4\frac{8}{3}$

2) $6\frac{14}{21}$

3) $\frac{20}{3}$

4) $\frac{19}{3}$

- 3) $506.783 = 500 + 6 + \frac{7}{10} + \frac{2}{\boxed{?}} + \frac{3}{1000}$. What is the missing number?

1) 8

2) 25

3) 50

4) 100

- 4) Express $\frac{9}{50}$ as a decimal.

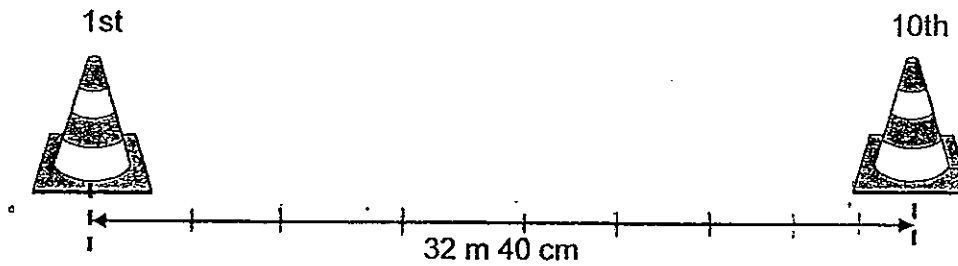
1) 0.18

2) 1.18

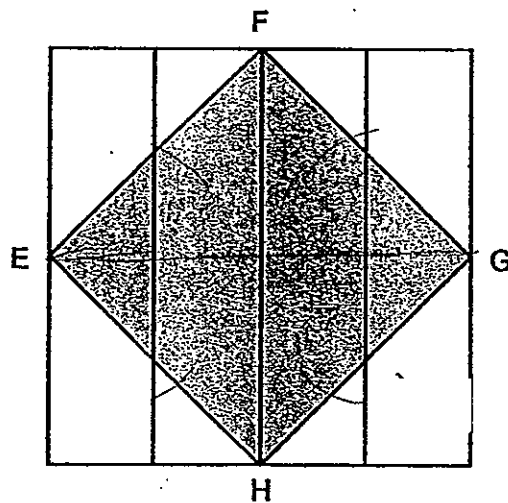
3) 1.8

4) 18

- 14) 10 cones are placed in a row at an equal distance apart. The 1st cone is 32 m 40 cm away from the 10th one. How far apart is the 1st cone and the 5th cone?



- 1) 12 m 96 cm 2) 14 m 24 cm
 3) 14 m 40 cm 4) 16 m 20 cm
- 15) The figure below is made up of 4 identical rectangles. EFGH are the midpoints of the figure. Find the ratio of the shaded area to the whole figure.



- 1) 1 : 1 2) 1 : 2
 3) 1 : 4 4) 3 : 4

End of Booklet A

Name : _____ ()

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5 Mathematics

2012 Continual Assessment 2

Paper 1

Booklet B

23 August 2012

Booklet A	/ 20
Booklet B	/ 20
Total	/ 40

**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 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) $\frac{3}{7} \div 10$ has the same value as $3 \times$. Express your answer as a fraction.

Ans: _____

17) The ratio of Richelle's age to Jillian's age is 5 : 2. Richelle is 30 years older than Jillian. What is their total age?

Ans: _____

18) Express the value of $\frac{5}{6}$ of 14 as a decimal. Round off your answer to 2 decimal places.

Ans: _____

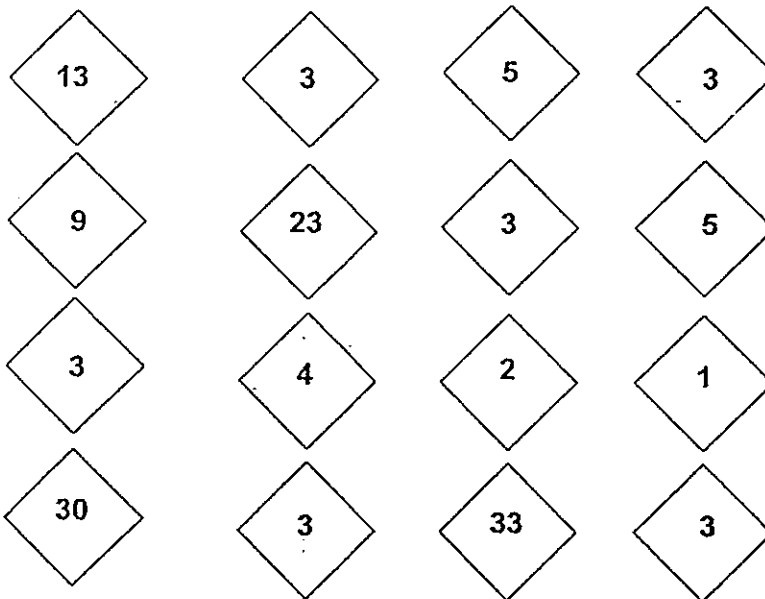


19) Express $6\frac{4}{5}$ m in cm.

Do not
write in
this space.

Ans: _____ cm

20) What percentage of the diamonds is labelled '3'?



Ans: _____ %



Do not
write in
this space.

21) How many minutes are there in 5% of 3 hours?

Ans: _____ min

22) Chin Chin bought a carton of potatoes. She used $\frac{1}{5}$ of it in the morning, $\frac{1}{3}$ of it in the afternoon and $\frac{1}{6}$ of it in the evening. At the end of the day, she had 36 potatoes left. How many potatoes did she have in the beginning?

23) Kieran is driving from Town A to Town B. After driving for 78km 80m, he stops for a rest. If the distance between Town A and Town B is 364.7km, how far is he from Town B?

Ans: _____ km



- 24) $\frac{1}{4}$ of the people at the beach are children. $\frac{3}{5}$ of the children are boys.
What is the ratio of the number of boys to the total number of people at the beach?

Do not
write in
this space.

Ans: _____

- 25) Max spends \$4.50 per day while Sammy spends \$7 per day. When Sammy spends \$91, how much does Max spend?

Ans: \$ _____



Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not
write in
this space

- 26) The usual price of a shirt was \$65. During a sale, Martin bought 3 such shirts at a discount of 12%. How much did he pay for the 3 shirts?

Ans: \$ _____

- 27) Javier is 12 kg lighter than Marcos and 46 kg lighter than Aaron. Given that Marcos is 40 kg, express the total mass of Javier and Marcos as a fraction of Aaron's mass.

Ans: _____

- 28) Alvis, Bryan and Chantel shared some sweets in the ratio 7 : 4 : 5. After Bryan gave half of his sweets to Chantel, Chantel had 28 sweets altogether. How many sweets did Alvis and Bryan have in the end?

Ans: _____



- 29) A tank can be filled to the brim with either 54 cups of water or 27 glasses of water. Howard pours in 9 cups and 3 glasses of water. What fraction of the tank is filled with water?

Do not
write in
this space.

Ans: _____

- 30) A pen cost 4 times as much as a book. A file cost $\frac{1}{4}$ as much as the book.
If 2 such files and 3 such pens cost \$150, find the cost of a book.

Ans: \$ _____

----- End of Paper 1 -----



Name : _____ ()

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5 Mathematics

2012 Continual Assessment 2

Paper 2

23 August 2012

Paper 1	40
Paper 2	60
Total Mark	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 in the space below each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

- 1) Mrs Bake had 70 cakes. She cut the cakes into equal slices and shared them equally amongst 35 friends. If each friend received 24 such slices, how many slices did she cut each cake into?

Ans : _____

- 2) Glenn had 156 game cards. He gave 36 game cards to Terry. The ratio of Glenn's game cards to Terry's game cards became 5 : 7. How many game cards did Terry have at first?

Ans : _____



- 3) Carlson went to the market with \$200. He spent 24% of the money on vegetables and 40% of the remainder on meat. How much did he spend on meat?

Do not write in this space.

Ans : \$ _____

- 4) A durian is thrice as heavy as a mango. The mass of the durian is 850 g more than that of the mango. What is the mass of the durian?

Ans : _____ kg _____ g

- 5) Alvin, Brayden and Colin shared a packet of sweets in the ratio 5 : 2 : 9. Alvin gave away $\frac{3}{10}$ of his sweets and had 14 sweets left. How many sweets were there in the packet at first?

Ans : _____



For questions 6 to 18, show your working clearly in the space below each question and write your answer 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)

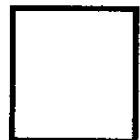
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- 6) There are 175 red and green apples in a carton. After taking away 25 red apples and $\frac{1}{7}$ of the green apples, the ratio of red apples to green apples is 4 : 3. How many red apples were there at first?

Ans: _____ (3 m)

- 7) Adela had 36 m of string. She cut two pieces from it. The shorter piece was used to form a square of area 169 cm^2 . The longer piece was used to form a triangle with equal sides. Each side of the triangle was 43 cm. What was the length of the remaining string? Leave your answer in m.

_____ (3 m)



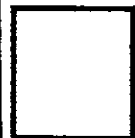
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- 8) Mr Richman made a will to give $\frac{2}{5}$ of his money to his wife, $\frac{1}{4}$ of it to his children and the remaining \$16 800 to charity. How much money will his wife receive?

Ans: _____ (3 m)

- 9) At a supermarket, every 100 g of honey-baked ham cost \$2.15. Every 100 g of chicken chipolata cost \$0.65 more than every 100 g of honey-baked ham. Miki bought 1.6 kg of honey-baked ham and 800 g of chicken chipolata. How much did she pay altogether?

_____ (3 m)



10) Farmer Jed had 600 peaches. 8% of them were rotten and thrown away. He sold 75% of the remainder. The unsold peaches were put into two boxes. There were 38 more peaches in the big box than in the small box.

(a) How many peaches were not sold?

(b) How many peaches were there in the small box?

Do not
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this space.

Ans: (a) _____ (2 m)

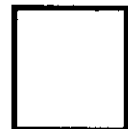
(b) _____ (1 m)



11) Mrs Dunkin sold $\frac{1}{6}$ of her doughnuts to Ellen and $\frac{3}{8}$ of the remainder to Martha. Then she found that she had 125 doughnuts left. If 40% of the original number of doughnuts were chocolate doughnuts, 50% of them were blueberry doughnuts and the rest were cinnamon doughnuts, how many cinnamon doughnuts did Mrs Dunkin have at first?

Do not
write in
this space.

Ans: _____ (4 m)



12) The ratio of the number of ducks to the number of chickens in a farm is 25 : 37. The ratio of the number of female ducks to the number of male ducks is 4 : 9. If there are 450 male ducks, how many more chickens than ducks are there in the farm?

Do not
write in
this space.

Ans: _____ (4 m)



13) Jess, Kideon and Darius shared some strawberries. Kideon took 4 more than $\frac{1}{3}$ of the strawberries. Jess took 6 more than $\frac{1}{8}$ of the remaining strawberries. Darius took the last 8 strawberries. How many strawberries did Kideon take?

Do not write in this space.

_____ (4 m)



14) When Tammy sold 33% of her beef pies and some chicken pies on Saturday, she sold a total of 582 pies. Out of the pies left, she had only 938 beef pies. How many chicken pies did she sell on Saturday?

Do not
write in
this space.

Ans: _____ (4 m)



15) At Connection Cafe, Maggie paid \$36.75 for 3 cups of coffee and 3 cups of tea. The cost of each cup of tea was $\frac{3}{4}$ the cost of each cup of coffee.

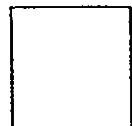
(a) How much did each cup of coffee cost?

(b) If Maggie were to buy 4 cups of coffee and 2 cups of tea instead, how much would she have to pay?

Do not
write in
this space.

Ans: (a) _____ (2 m)

(b) _____ (2 m)



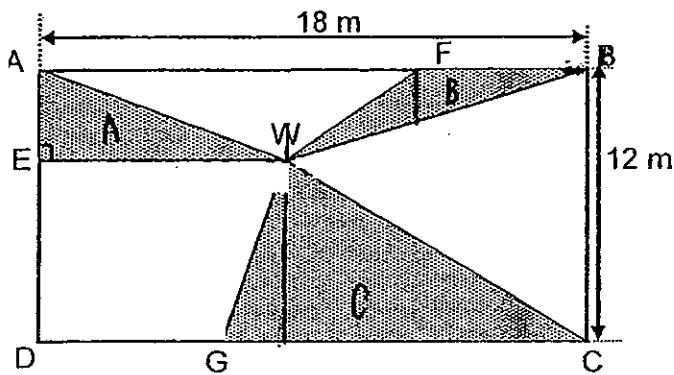
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16) The figure below is not drawn to scale.

ABCD is a rectangle. AE is $\frac{1}{3}$ the length of AD and $WE = 9$ m. The ratio of the length of AE to AF to DG is 1 : 3 : 2.

(a) What is the total area of the shaded parts of the rectangle?

(b) What fraction of the rectangle is shaded?



Ans: (a) _____ (3 m)

(b) _____ (2 m)



17 Lynette spent $\frac{5}{8}$ of her savings on 4 identical pair of pants and 8 identical skirts. If she could buy 6 such skirts with the rest of her money, how many pairs of pants could she buy with her original amount of savings?

Do not
write in
this space.

Ans: _____ (5 m)



18) The ratio of the number of chocolate chip cookies that Adele has to the number of chocolate chip cookies that Brigitte has is 2 : 5. After Adele gave away 63 cookies and Brigitte gave away $\frac{8}{15}$ of her cookies, the ratio of the number of cookies that Adele has to the number of cookies that Brigitte has is 3 : 7.

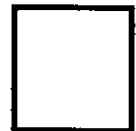
(a) How many more cookies does Brigitte have than Adele at first?

(b) How many more cookies than Adele did Brigitte give away?

Do not
write in
this space.

Ans: (a) _____ (3 m)

(b) _____ (2 m)



-----End Of Paper 2-----



ExamSutra 考试圣经

Answer Sheets

EXAM PAPER 2012

SCHOOL : CHIJ
SUBJECT : PRIMARY 5 MATHEMATICS
TERM : CA2

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

- 16) $1/70$ 17) 70 18) 11.67 19) 680cm 20) 37.5%
- 21) 9 min 22) 120 23) 286.62km 24) 3 : 20 25) \$58.50
- 26) \$171.60 27) 34/37 28) 36 29) 5/18 30) \$12

Paper 2

1) $24 \times 35 = 840$

$840 \div 70 = 12$

She cut each cake into 12 slices.

2) $156 - 36 = 120$

$5u \rightarrow 120$

$1u \rightarrow 120 \div 5 = 24$

$7u \rightarrow 24 \times 7 = 168$

$168 - 36 = 132$

Terry had 132 game cards at first.

3) $100\% - 24\% = 76\%$

$76/100 \times 200 = 152$

$40/100 \times 152 = \$60.80$

He spent \$60.80 on meat.

$$4) 850 \div 2 = 425$$

$$425 \times 3 = 1275$$

$$1275 \rightarrow 1\text{kg } 275\text{g}$$

The mass of the durian is 1kg 275g.

$$5) A : B : C$$

$$5 : 2 : 9$$

$$10 : 4 : 18$$

$$10u - 3u = 7 \rightarrow 14$$

$$10u + 4u + 18u = 32u$$

$$32u \rightarrow 14/7 \times 32 = 64$$

There were 64 sweets in the packet at first.

$$6) R : G$$

$$4 : 3$$

$$8 : 6$$

$$175 - 25 = 150 \rightarrow 15u$$

$$1u \rightarrow 150 \div 15 = 10$$

$$(10 \times 8) + 25 = 105$$

There were 105 red apples at first.

$$7) (13 \times 13 = 169)$$

$$13 \times 4 = 52$$

$$43 \times 3 = 129$$

$$36m \rightarrow 3600$$

$$3600 - 52 - 129 = 3419$$

$$3419\text{cm} \rightarrow 34.19\text{m}$$

The length of the remaining string is 34.19m.

$$8) \quad 2/5 \text{ wife } (8/20)$$

$$\text{Total} \left\{ \begin{array}{l} 2/5 \text{ wife } (8/20) \\ 1/4 \text{ children } (5/20) \end{array} \right.$$

$$\$16800 \text{ charity}$$

$$20u - 8u - 5u = 7u$$

$$7u \rightarrow \$16800$$

$$8u \rightarrow 16800/7 \times 8 = 19200$$

His wife will receive \$19200.

9) 100g of ham → \$2.15

100g of chicken → \$2.15 + \$0.65 = \$2.80

1.6kg → 1600g

$(1600 \div 100) \times \$2.15 = \34.40

$(800 \div 100) \times \$2.80 = \22.40

$\$34.40 + \$22.40 = \$56.80$

She paid \$56.80 altogether.

10)a) $100\% - 8\% = 92\%$

$92/100 \times 600 = 552$

$100\% - 75\% = 25\%$

$25/100 \times 552 = 138$

138 peaches were not sold.

b) $(138 - 38) \div 2 = 50$

There were 50 peaches in the small box.

11) $1/6$ Ellen

Total $5/6$ $3/8$ Martha

$5/8$ 125

$5u \rightarrow 125$

$8u \rightarrow 125/5 \times 8 = 200$

$5u \rightarrow 200$

$6u \rightarrow 200/5 \times 6 = 240$

$100\% - 40\% - 50\% = 10\%$

$10/100 \times 240 = 24$

Mrs Dunkin had 24 cinnamon doughnuts at first.

12) $9u \rightarrow 450$

$13u \rightarrow 450/9 \times 13 = 650$

$25u \rightarrow 650$

$37u - 25u = 12u$

$12u \rightarrow 650/25 \times 12 = 312$

There are 312 more chickens than ducks.

13) $8 + 6 = 14$

$7u \rightarrow 14$

$8u \rightarrow 14/7 \times 8 = 16$

$(16+4) \div 2 = 10$

$10 + 4 = 14$

Kideon took 14 strawberries.

$$14) 100\% - 33\% = 67\%$$

$$67\% \rightarrow 938$$

$$33\% \rightarrow 938/67 \times 33 = 462$$

$$938 - 462 = 476$$

She sold 120 chicken pies on Saturday.

$$15)a) \text{Tea : coffee}$$

$$3 : 4$$

$$(3 \times 4) = (3 \times 3) = 21$$

$$21u \rightarrow \$36.75$$

$$1u \rightarrow \$36.75 \div 21 = \$1.75$$

$$4u \rightarrow \$1.75 \times 4 = \$7$$

Each cup of coffee cost \$7.

$$b) (4 \times 4) + (2 \times 3) = 22$$

$$22u \rightarrow \$1.75 \times 22 = \$38.50$$

She would have to pay \$38.50

$$16)a) 12m \div 3 = 4m$$

$$1u \rightarrow 4m$$

$$18 \times 4 = 72$$

$$\frac{1}{2} \times (3 \times 4) \times 4 = 24$$

$$\frac{1}{2} \times 9 \times 4 = 18$$

$$72 - 24 - 18 = 30 \text{ (A+B)}$$

$$2u \rightarrow 4 \times 2 = 8$$

$$8 \times 18 = 144$$

$$\frac{1}{2} \times 9 \times 8 = 36$$

$$\frac{1}{2} \times (9 - 8) \times 8 = 4$$

$$144 - 36 - 4 - (8 \times 8) = 40$$

$$30 + 40 = 70m^2$$

$$b) 18 \times 12 = 216$$

$$70/216 = 35/108$$

The fractions is 35/108

17) $5/8$ of her money $\rightarrow 4p + 8s$

Left: $3/8 \rightarrow 6s$

$$1/8 \rightarrow (6 \div 3)s = 2s$$

$$1/8 \div 2 = 1/16$$

$$1/16 \rightarrow 1s$$

$$8s \rightarrow 8 \times 1/16 = 8/16$$

$$5/8 \rightarrow 4p + 8/16$$

$$4p \rightarrow 5.8 - 8/16 = 1/8$$

$$8/8 \rightarrow 4 \times 8 = 32$$

She could buy 32 pairs of pants.

18) Before:

$$A : B$$

$$2 : 5$$

$$= 6 : 15$$

After:

$$A : B$$

$$3 : 7$$

a) $3u \rightarrow 63$

$$15u - 6u = 9u$$

$$9u \rightarrow 63/3 \times 9 = 189$$

Brigette has more cookies than Adele at first.

b) $8u \rightarrow 63/3 \times 8 = 168$

$$168 - 63 = 105$$

Brigette have 105 more cookies than Adele away.

