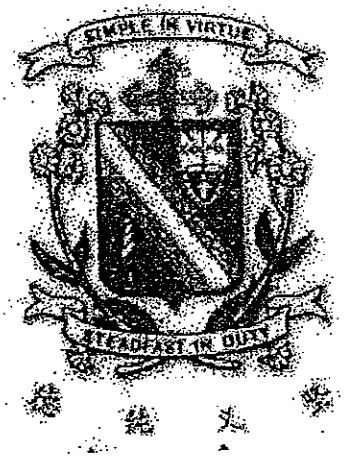
Name :_____( )

Class : Primary 5_____

CHIJ ST NICHOLAS GIRLS' SCHOOL(PRIMARY)



PRIMARY 5

SECOND SEMESTRAL ASSESSMENT

MATHEMATICS

29 OCTOBER 2010

PAPER 1

(BOOKLET A)

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) Round off 589 623 to the nearest thousand.

(1) 570 000 (2) 580 000

(3) 590 000 (4) 600 000

2) What is the missing number in the box?

562 x 88 = 637 x 88 – ? x 88

(1) 6600 (2) 75

(3) 8 (4) 1

3) How many twelfths are there altogether in $7\frac{3}{4}$?

(1) 16 (2) 28

(3) 42 (4) 93

4) Linda bought $\frac{3}{5}$ kg of flour. She used $\frac{1}{3}$ of it to bake some muffins. How much flour did she use?

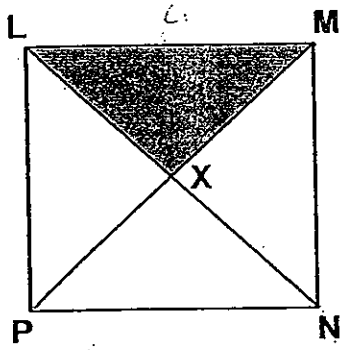
(1) $\frac{1}{3}$ kg

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

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

(4) $\frac{4}{15}$ kg

5) The perimeter of square LMNP is 36 cm. Find the area of the shaded triangle LMX.



(1) 9 cm^2

(2) 20.25 cm^2

(3) 40.5 cm^2

(4) 81 cm^2

6) Subtract 12 hundredths from 15 tenths.

(1) 0.2

(2) 1.38

(3) 11.85

(4) 148.8

7) The following table shows the nutritional value in each serving of 100 g of chocolate.

Nutrition	Mass (g)
Protein	8
Fat	50
Carbohydrate	56
Sugar	72

What is the ratio of the mass of protein to the mass of carbohydrate to the total nutritional mass of the chocolate?

(1) 1 : 9 : 7

(2) 4 : 25 : 93

(3) 4 : 28 : 93

(4) 36 : 25: 28

8) Express 5.075 kg in kilograms and grams.

(1) 5 kg 75 g

(2) 5 kg 750 g

(3) 50 kg 75 g

(4) 50 kg 750 g

9) The average of 5 numbers is 70. The sum of 4 of the numbers is 230. What is the fifth number?

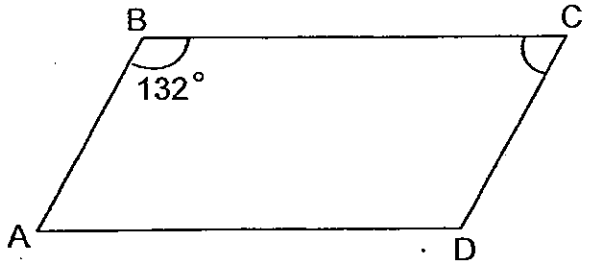
(1) 350

(2) 160

(3) 120

(4) 70

10) ABCD is a parallelogram. Find $\angle BCD$.



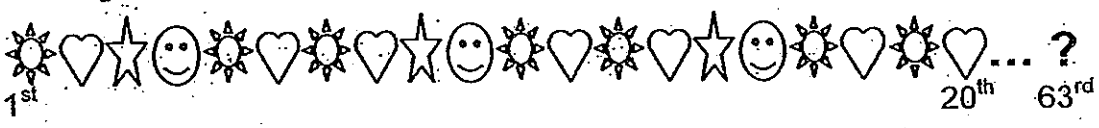
(1) 48°

(2) 57°

(3) 90°

(4) 132°

11) Lancey used a strip of wall paper bearing 4 designs to make a border along the edge of a wall. The first 20 shapes on the strip of wall paper are shown below. What was the 63rd shape?



(1) 

(2) 

(3) 

(4) 

12) Madam Letchumi bought 3 kg of crabs. She gave $80 to the cashier and received a change of $1.40. Find the cost of 1 kg of crabs.

(1) $23.20

(2) $26.20

(3) $69.60

(4) $78.60

13) Gordon ordered one large pizza and ate $\frac{1}{3}$ of it. He gave $\frac{2}{5}$ of the remainder equally to his 4 friends. What fraction of the pizza did each friend receive?

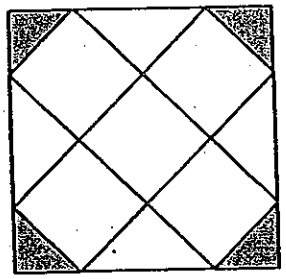
(1) $\frac{4}{75}$

(2) $\frac{1}{10}$

(3) $\frac{1}{30}$

(4) $\frac{1}{15}$

14) What percentage of the whole figure is shaded?



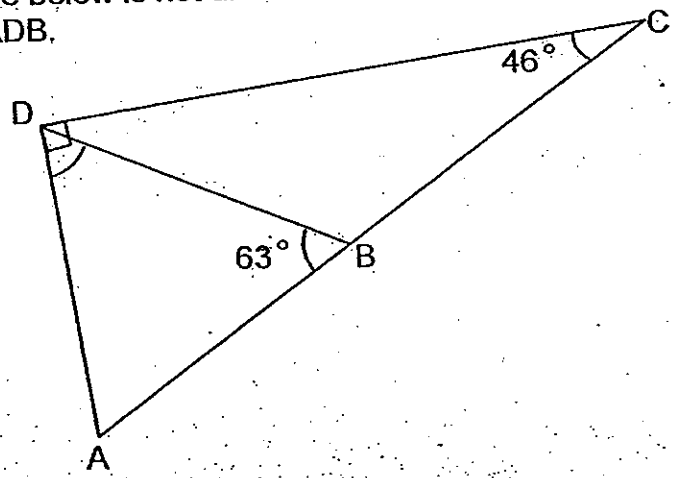
(1) 6.25%

(2) 12.5%

(3) 18.75%

(4) 25%

15) The figure below is not drawn to scale. ABC is a straight line. Find $\angle ADB$.



(1) 17°

(2) 45°

(3) 73°

(4) 107°

End of Booklet A

Name : _____ ( )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL(PRIMARY)

PRIMARY 5

SECOND SEMESTRAL ASSESSMENT

MATHEMATICS

29 OCTOBER 2010

PAPER 1

(BOOKLET B)

Booklet A	/ 20
Booklet B	/ 20
Total (Paper 1)	/ 40

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 8 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) How many hundreds are there altogether in 748 x 900?

Ans: _____

17) Express $2\frac{3}{11}$ as a decimal.
Round off the answer to 2 decimal places.

Ans: _____

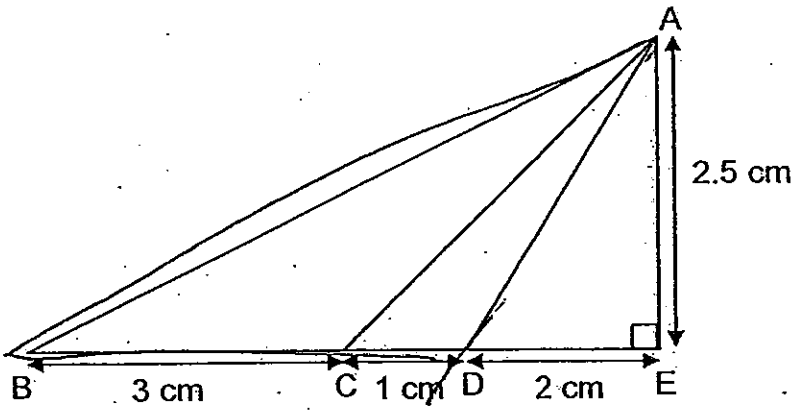
18) In $\boxed{?} - \frac{4}{7} = \frac{11}{42}$, what is the missing fraction in the box?
Leave the fraction in its simplest form.

Ans: _____

19) The mass of 3 identical slabs of concrete is $\frac{9}{10}$ kg. Contractor Ang needs to make a wall with 177 such slabs of concrete. How heavy will the wall be?

Ans: _____ kg

20) The figure below shows Triangle ABE that comprises Triangle ABC, Triangle ACD and Triangle ADE.



Name the triangle that has an area of 5 cm^2.

Ans: _____

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Do not write in this space.

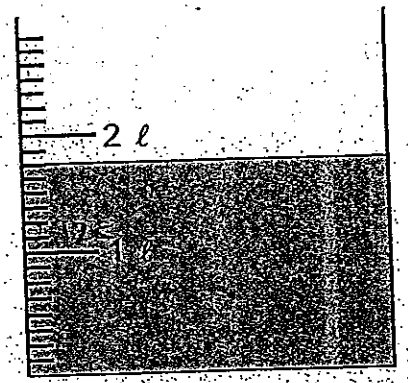
21) An iron rod is 1.2 m long. A stick is 40 cm long. A pole is 0.8 m long. Find the ratio of the length of the pole to the length of the stick to the length of the iron rod.

Ans: _____

22) Given that one litre of dishwashing detergent cost $3.15, what is the cost of 400 $m\ell$ of dishwashing detergent?

Ans: $_____

23) How much water is there in the beaker?



Ans: _____ ℓ

24) What is 0.418 as a percentage?

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Ans: _____%

25) Find the value of 15 ÷ 3 x 7 + 23.

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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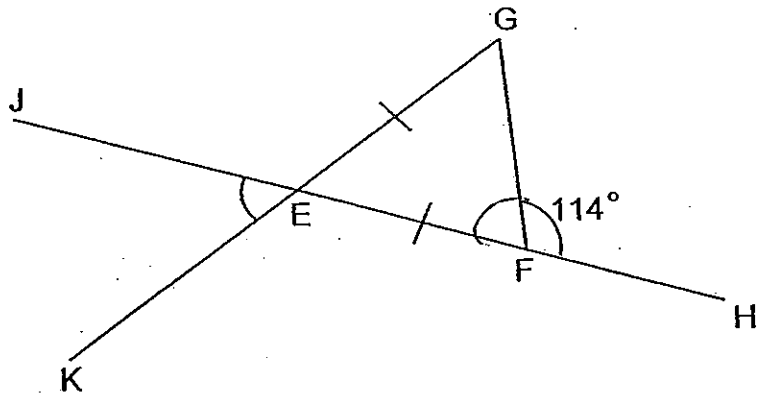
26) The figure below is not drawn to scale. JEFH and GEK are straight lines. EFG is an isosceles triangle and EF = EG. Find $\angle$JEK.



Ans: _____ °

27) Teng Zhen took $2\frac{1}{4}$ h to finish doing her Science homework. This was $\frac{5}{6}$ h less than the time taken to complete her Mathematics homework. How long did Teng Zhen take to complete both her Science and Mathematics homework?

Ans: _____ h

Do not write in this space

28) After spending $\frac{2}{5}$ of her money on a dress and $250 on a cellular phone, Sandra had $\frac{1}{3}$ of her money left. How much money did she have at first?

Ans: $_____

29) Faizal and Chun Teck had $190 altogether. After Faizal spent $43 and Chun Teck received $18 from his mother, Faizal had $\frac{1}{4}$ as much money as Chun Teck. How much money did Faizal have at first?

Ans: $_____

30) ABCD is a trapezium. $\angle$ADC is 106° and $\angle$DAC is 52°. Find $\angle$x.

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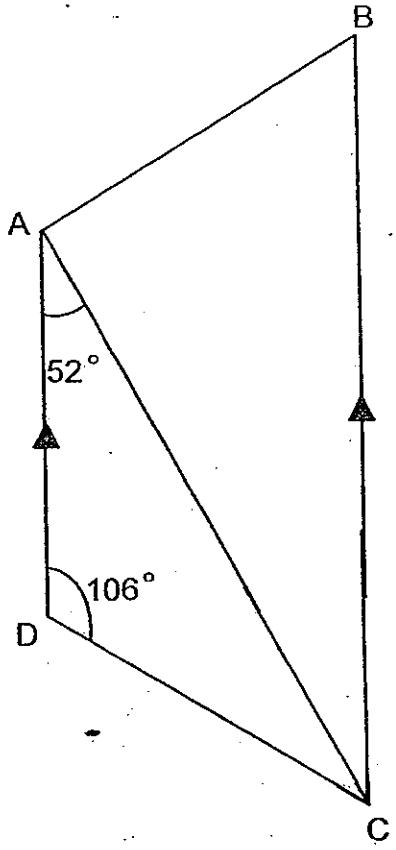


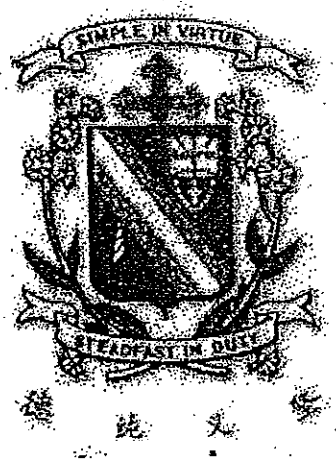
Ans: _____ °

End of Booklet B

Name : _____( )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL(PRIMARY)



PRIMARY 5

SECOND SEMESTRAL ASSESSMENT

MATHEMATICS

29 OCTOBER 2010

PAPER 2

Paper 1	40
Paper 2	60
Total	100

_____

Parent's / Guardian's Signature

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 15 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]

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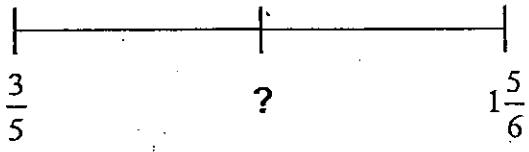
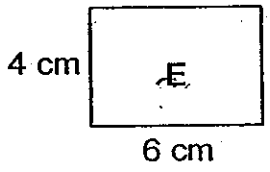
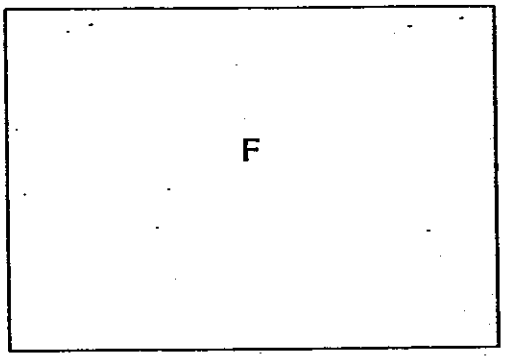
1) Find the fraction exactly halfway between $\frac{3}{5}$ and $1\frac{5}{6}$.



Ans: _____

2) Poster F is an enlargement of Poster E. The size of Poster E is 4 cm by 6 cm. What is the ratio of the area of Poster E to Poster F? Leave the answer in the simplest form.





Ans: _____

3) 100 g of grapes cost $1.15 and 100 g of cherries cost $0.95 more than 100 g of grapes. Mrs Raymond bought 1.5 kg of grapes and 700 g of cherries. How much did she pay for the fruits altogether?

Do not write in this spac

Ans: $_____

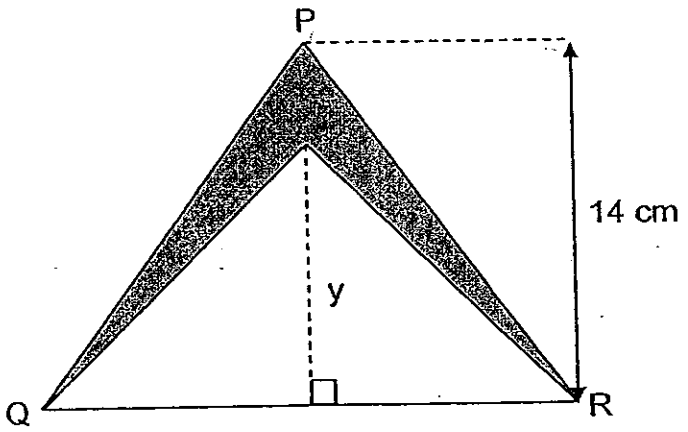
4) The table below shows the Mathematics results of all the 243 Primary 5 pupils in Jifen Primary School.

Marks	21 -30	31- 40	41-50	51-60	61-70	71- 80	81-100
Number of pupils	3	8	25	72	64	48	23

What is the average number of pupils who scored at least 61 marks?

Ans: _____

5) The height of triangle PQR is 14 cm. Its base is 1.25 times of its height. If y is $\frac{3}{4}$ the height of triangle PQR, what is the area of the shaded part? Leave the answer as a decimal.



Ans: _____

Do not write in this spa

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 brackets [ ] at the end of each question or part-question. (50 marks)

Do not write in this spac

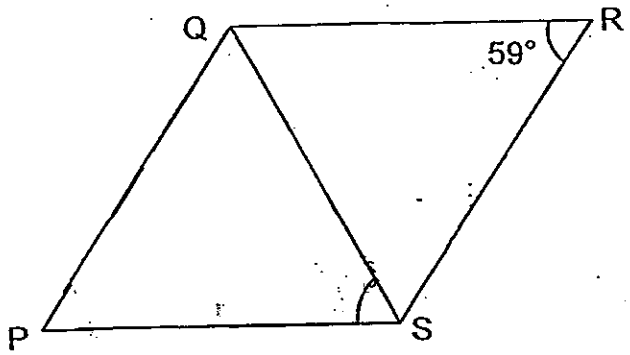
6) There are five fractions in a pattern. Four of them are shown below and one fraction is missing. The missing fraction is the **4th largest fraction** among the five fractions. Write down the five fractions in ascending order.

$3\frac{5}{12}$ $\boxed{?}$ $\frac{11}{12}$

$1\frac{2}{3}$ $1\frac{1}{6}$

Ans _____ [3m]

7) PQRS is a rhombus. Given that $\angle QRS$ is 59°, find $\angle PSQ$.



Ans: _____ [3m]

8) Rosalind, Sharmila and Pei Ling participated in a 40-km marathon. Pei Ling ran 8.006 km further than Rosalind, while Sharmila ran a distance 2.062 km less than Pei Ling. If the total distance covered by the three girls was 38.25 km, how far did Rosalind run? Leave the answer in metres.

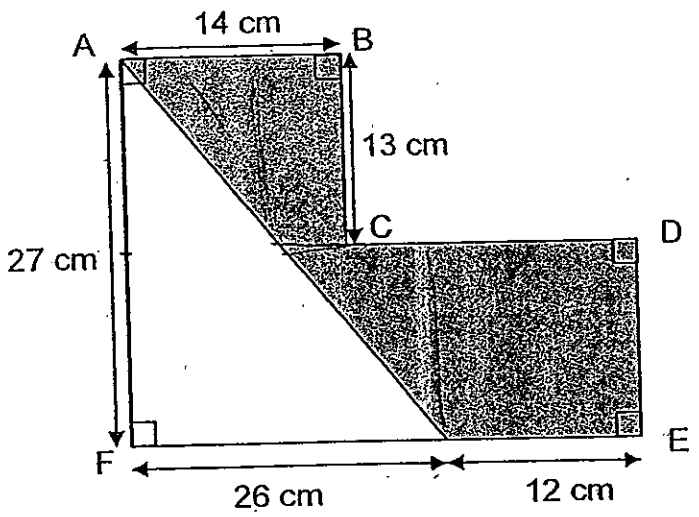
Do not write in this spac

Ans: _____ [3m]

9) For a party, Joo Chiet mixed 850 $m\ell$ of fruit punch syrup with 7 times that amount of water in a pitcher. She divided the fruit punch mixture equally into 16 glasses. How much fruit punch did each glass contain? Leave the answer in litres.

Ans: _____ [3m]

10) The figure below is not drawn to scale. Find the area of the shaded region.



Ans: _____ [3m]

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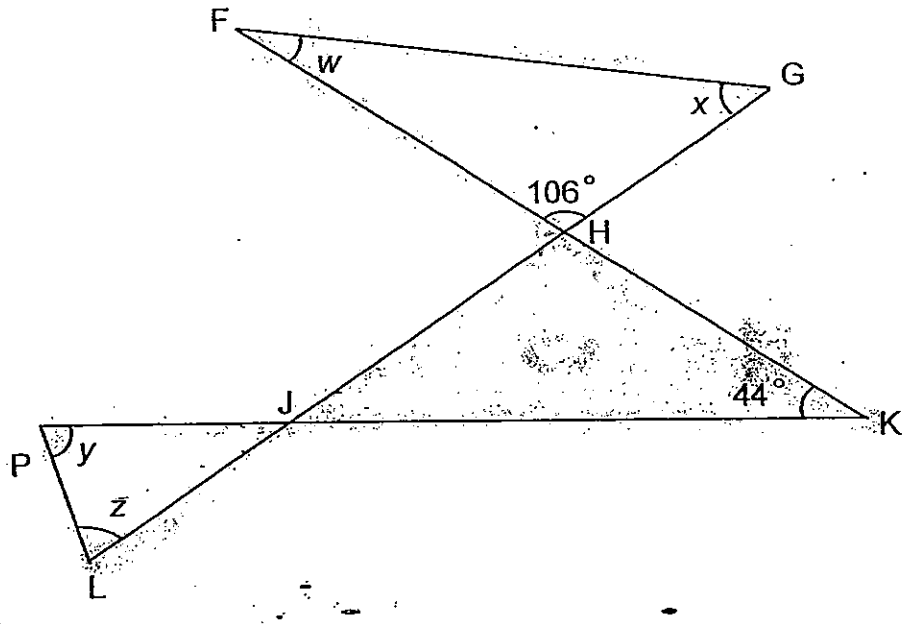
11) The ratio of the number of American tourists to the number of South African tourists to the number of Japanese tourists who visited Singapore last year was 5 : 3 : 9. If the number of American, South African and Japanese tourists totalled 16 779 tourists, how many fewer American tourists than Japanese tourists visited Singapore last year?

Do not write in this space

Ans: _____ [4m]

12) The figure below is made up of straight lines. $\angle FHG = 106^\circ$ and $\angle JKH = 44^\circ$. Find the sum of $\angle w$, $\angle x$, $\angle y$ and $\angle z$.



Ans: _____ [4m]

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13) Shannon saved $468 in January. In February, her savings was 85% of the amount saved in January.

a) How much money did she save in February?

b) Shannon was saving up money to buy a laptop which cost $2580. She has planned to save the remainder of the money for the laptop by the last day in June. What is the average amount of money she would need to save after January and February?

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Ans: (a)_____ [2m]

(b)_____ [2m]

(14) Mr Rahim saves 40% of his salary every month. He gives $\frac{4}{15}$ of the remainder to his wife and divides the remaining amount equally among his parents and two daughters. If each daughter and parent receives $264 from him, find the amount of money Mr Rahim earns in a month.

Do not write in this spac

Ans: _____ [4m]

15) There were 350 children enrolled in the Eliot Drama Academy in 2009. $\frac{2}{7}$ of the children were girls. Additional children joined the drama academy in 2010. For every 2 girls who joined the drama academy, 1 boy joined the drama academy. If there was an equal number of boys and girls in 2010, how many boys joined the academy in that year?

Do not write in this spac

Ans: _____ [4m]

16) 44% of the cakes in a confectionery are strawberry cream cakes. The rest are tiramisus and durian cakes. The ratio of the number of tiramisus to durian cakes is 3 : 5. There are 72 more strawberry cream cakes than durian cakes. How many cakes are baked in the confectionery altogether?

Do not write in this spac

Ans: _____ [5m]

17) Mrs Quek wants to buy a leather sofa set. The price of the sofa set is $5980. A discount of 12% is given if Mrs Quek pays in cash. If she wishes to pay by instalments, there will be no discount given but she has to pay a 10% downpayment and monthly instalments of $467 for 12 months. How much will Mrs Quek save if she pays in cash instead of instalments?

Do not write in this spac

Ans: _____ [5m]

18) Mr Foo bought a sack of ice to be used at his desserts stall. He kept $\frac{4}{9}$ of it for his brother who ran an ice cream stall. Then he scooped out 1.75 kg of the remaining ice for his cousin. Finally, he scooped out $\frac{2}{7}$ of the remainder for a birthday party and kept the rest for his own use. If $\frac{1}{5}$ of his share was 1.25 kg, what was the mass of the sack of ice he bought?

Do not write in this spa

Ans: _____ [5m]

-End of Paper 2-

Ans

EXAM PAPER 2010

SCHOOL : CHIJ PRIMARY
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA2

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

16)6732 **17)2.27** **18)5/6** **19)53 1/10 kg** **20)ABD**

21)2:1:3 **22)$1.26** **23)1.75L** **24)41.8%** **25)58**

26)48° **27)5 1/3** **28)$937.50** **29)$76** **30)52°**

Paper 2

1)1 5/6 − 3/5 = 1 7/30 1 7/30 ÷ 2 = 37/60 37/60 + 3/5 = 1 13/60	2)4 x 6 = 24 18 ÷ 6 = 3 3 x 4 = 12 12 x 18 = 216 24 ÷ 216 = 1:9 The ratio is 1:9
3)$0.95 + $1.15 = $2.10 (cherries) 1.5kg = 1500g 1500 ÷ 100 = 15 15 x $1.15 = $17.25 (grapes) 700 ÷ 100 = 7 7 x $2.10 = $14.70 (cherry) $14.70 + $17.25 = $31.95	4)64 +48 + 23 = 135 135 ÷ 243 = 5/9 The average number of pupils is 5/9
5)14 x 1.25 = 17.5 (base) 14 x ¾ = 10.5 10.5 x 17.5 x ½ = 91.875 14 x 17.5 x ½ = 122.5 122.5 − 91.875 = 30.625cm2	6)11/12, 1 1/6, 1 2/3, 25/12, 3 5/12
7)180° − 59° = 121° 121° ÷ 2 = 60.5° ∠PSQ is 60.5°	

8)8.006 – 2.062 = 5.944
5.944 + 8.006 = 13.95
38.25 – 13.95 = 24.3
24.3 ÷ 3 = 8。1
8.1km = 8100m
She run 8100m

9)850ml = 0.85L
7u + 1u = 8u
0.85 x 8 = 6.8
6.8 ÷ 16 = 0.425
Each glass contained 0.425L

10)26 x 27 x ½ = 351
14 x 13 = 182
26 + 12 = 38
27 – 13 = 14
14 x 38 = 532
532 = 182 = 714
714 – 351 = 363cm2

11)5u + 3u + 9u = 17u
16779 ÷ 17 = 987
9u – 5u = 4u
987 x 4 = 3948
3948 fewer American tourists than Japanese tourists.

12)106° + 44° = 150°
180° – 150° = 30°
180° – 30° = 74°
74° + 150° = 224°
Their sum is 224°

13)a)$468 x 85% = $397.80
She saved $397.80 in Feb.
b)$397.80 + $468 = $865.80
$2580 - $865.80 = $1714.20
March to June→4 months
$1714.20 ÷ 4 = $428.55
The average amount is $428.55

14)100% - 40% = 60%
60% = 3/5
1 – 4/5 = 11/15
2u + 2u =4u
11/15 ÷ 4 = 11/60
60%-->$264
1/60→$24
1→$1440
60%-->$1440
1%-->$24
100%-->$2400
He earns $2400

15)350 ÷ 7 = 50
50 x 2 = 100 (g in 09)
7u – 2u = 5u
50 x 5 = 250 (b in 09)
250 – 100 = 150

16)100% - 44% = 56%
3u + 5u = 8u
56% ÷ 8 = 7%
7% x 5 =35%
44% - 35% = 9%
72 ÷ 9 = 8
8 x 100 = 800

17)$5980 x 10% = $598
$467 x 12 = $5604
$5604 + $598 = $6202 (instalments)
$5980 x 12% = $717.60
$5980 - $717.60 = $5262.40
$6202 - $5262.40 = $939.60
She will save $939.60

18)1/5→1.25
1→6.25
1 – 2/7 =5/7
5/7→6.25
1/7→1.25

1→8.75
8.75 + 1.75 =10.5
1 – 4/9 = 5/9
5/9→10.5
1/9→2.1

1→18.9kg
He bought 18.9kg of ice.