

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?

$$562 \times 88 = 637 \times 88 - \boxed{?} \times 88$$

(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?

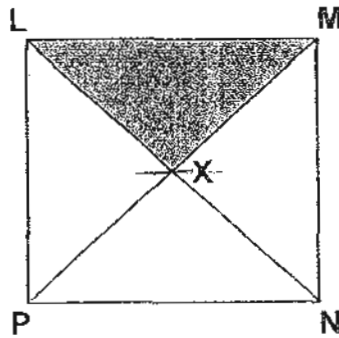
(1) $\frac{1}{3}$ kg

(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

- 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?

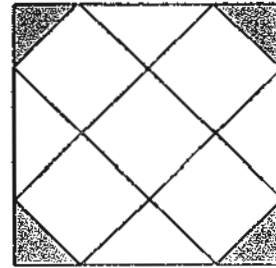
(1) $\frac{4}{75}$

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

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

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

- 14) What percentage of the whole figure is shaded?



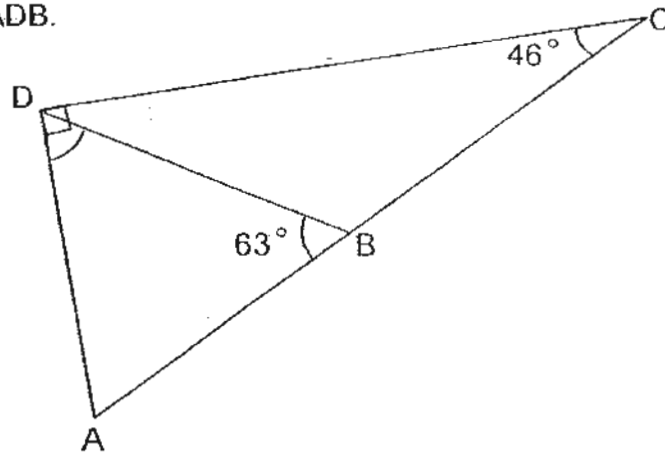
(1) 6.25%

(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°

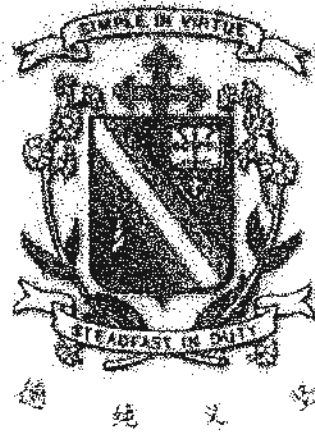
(4) 107°

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.
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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]

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16) How many hundreds are there altogether in 748×900 ?

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: _____

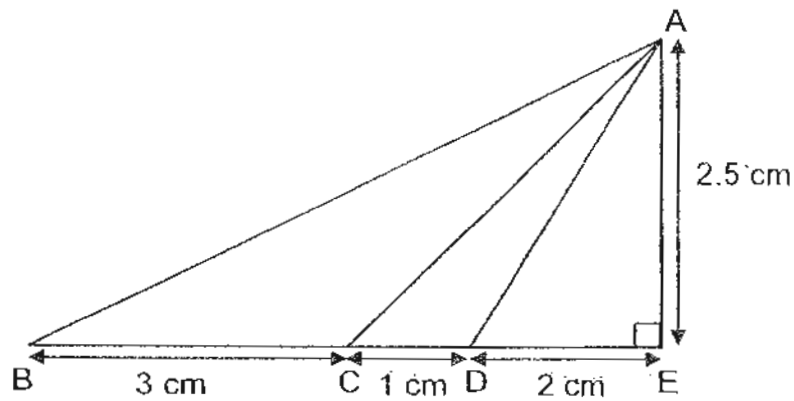


- 19) The mass of 3 identical slabs of concrete is $\frac{9}{10}$ kg. Contractor Ang needs to make a wall with 177 such slabs of concrete. How heavy will the wall be?

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Ans: _____

- 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: _____

- 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.

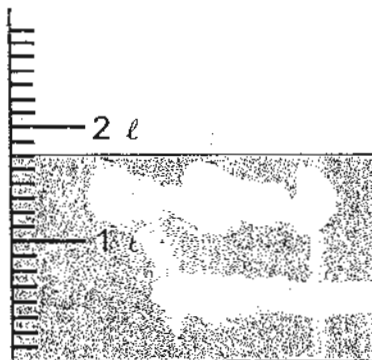
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Ans: _____

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

Ans: \$ _____

- 23) How much water is there in the beaker?



Ans: _____

24) What is 0.418 as a percentage?

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Ans: _____ %

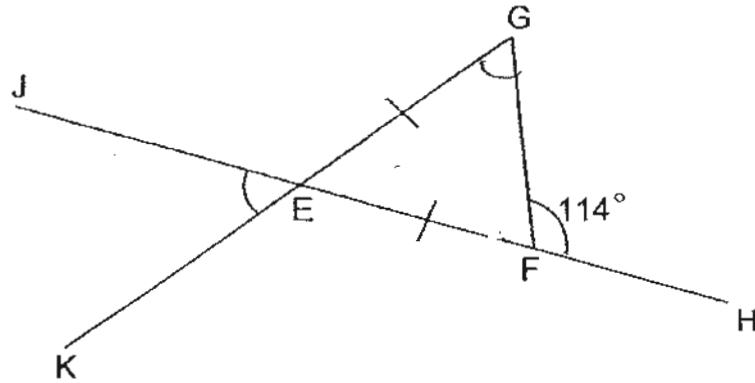
25) Find the value of $15 \div 3 \times 7 + 23$.

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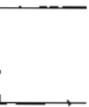
- 26) The figure below is not drawn to scale. JEFH and GEK are straight lines. EFG is an isosceles triangle and $EF = EG$. Find $\angle JEK$.



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



- 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?

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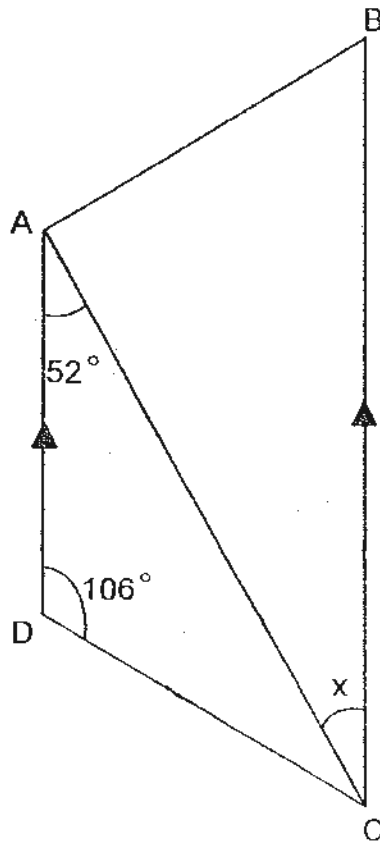
Ans: \$ _____

- 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: _____^o



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

Parent's / Guardian's Signature

Paper 1	40
Paper 2	60
Total	100

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.

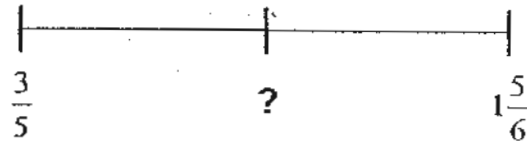
THE USE OF AN APPROVED CALCULATOR IS EXPECTED, WHERE APPROPRIATE.

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]

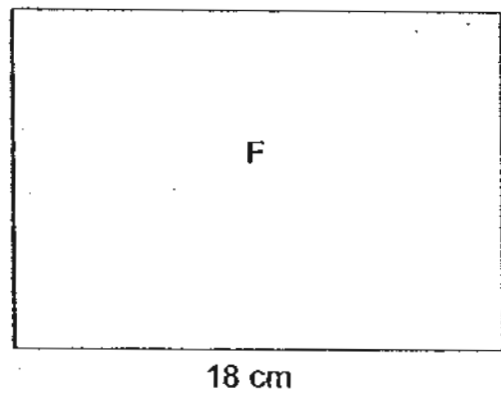
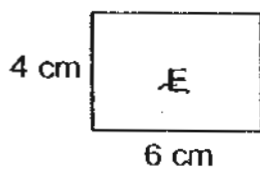
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- 1) Find the fraction exactly halfway between $\frac{3}{5}$ and $1\frac{5}{6}$.



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?

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Ans: \$ _____

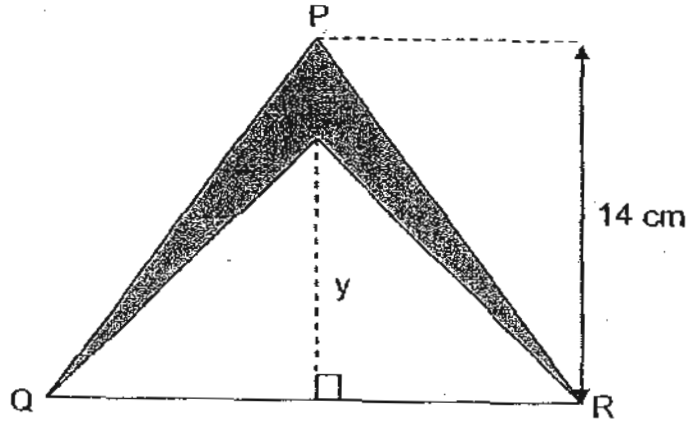
- 4) The table below shows the Mathematics results of all the 243 Primary 5 pupils in Jifen Primary School.

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: _____

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)

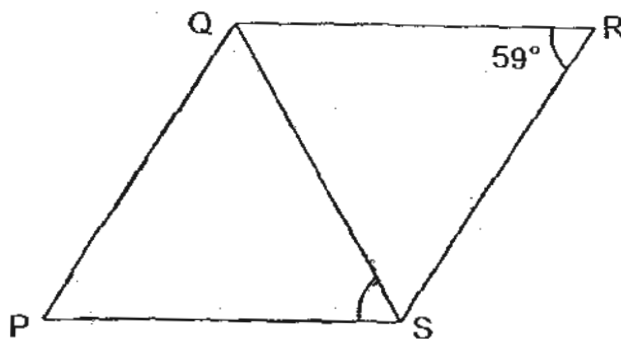
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- 6) There are five fractions in a pattern. Four of them are shown below and one fraction is missing. The missing fraction is the 4th largest fraction among the five fractions. Write down the five fractions in ascending order.

$3\frac{5}{12}$	$\boxed{?}$	$\frac{11}{12}$
$1\frac{2}{3}$		$1\frac{1}{6}$

Ans: _____ [3m]

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



Ans: _____ [3m]

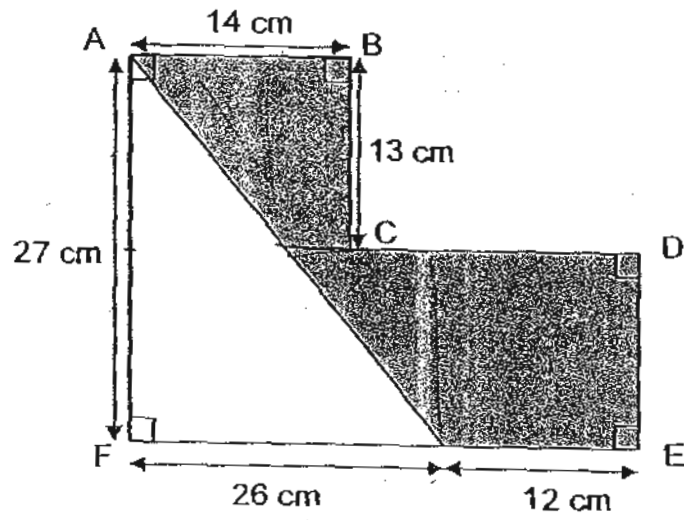
- 8) Rosalind, Sharmila and Pei Ling participated in a 40-km marathon. Pei Ling ran 8.006 km further than Rosalind, while Sharmila ran a distance 2.062 km less than Pei Ling. If the total distance covered by the three girls was 38.25 km, how far did Rosalind run? Leave the answer in metres.

Ans: _____ [3m]

- 9) For a party, Joo Chiet mixed 850 ml 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.



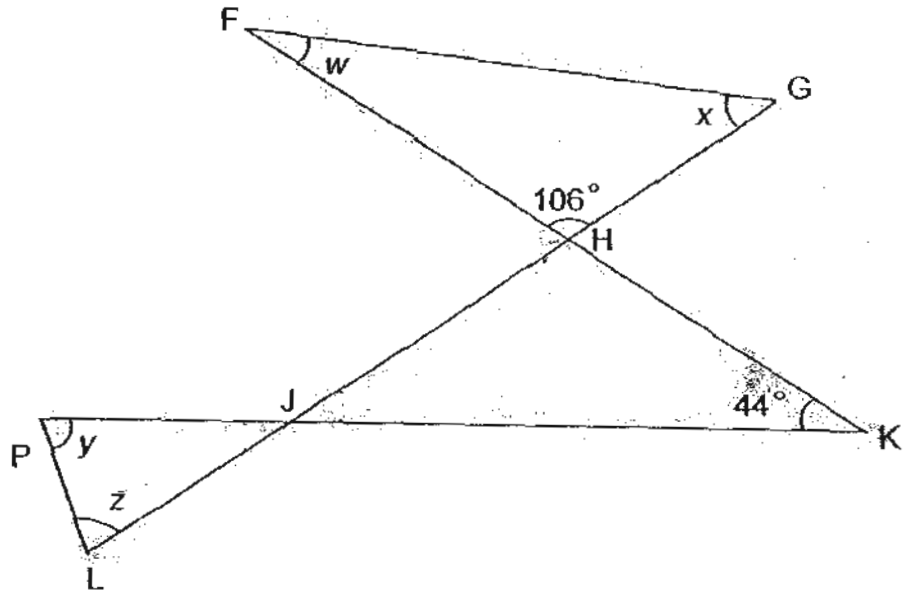
Ans: _____ [3m]

- 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?

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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]

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]

- (4) 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.

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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?

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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?

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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?

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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?

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Ans: _____ [5m]

-End of Paper 2-

ANSWER SHEET

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

<p>1) $1\frac{5}{6} - \frac{3}{5} = \frac{17}{30}$ $\frac{17}{30} \div 2 = \frac{17}{60}$ $\frac{17}{60} + \frac{3}{5} = \frac{113}{60}$</p>	<p>2) $4 \times 6 = 24$ $18 \div 6 = 3$ $3 \times 4 = 12$ $12 \times 18 = 216$ $24 \div 216 = 1:9$ The ratio is 1:9</p>
<p>3) $\\$0.95 + \\$1.15 = \\$2.10$ (cherries) $1.5\text{kg} = 1500\text{g}$ $1500 \div 100 = 15$ $15 \times \\$1.15 = \\17.25 (grapes) $700 \div 100 = 7$ $7 \times \\$2.10 = \\14.70 (cherry) $\\$14.70 + \\$17.25 = \\$31.95$</p>	<p>4) $64 + 48 + 23 = 135$ $135 \div 243 = \frac{5}{9}$ The average number of pupils is $\frac{5}{9}$</p>
<p>5) $14 \times 1.25 = 17.5$ (base) $14 \times \frac{3}{4} = 10.5$ $10.5 \times 17.5 \times \frac{1}{2} = 91.875$ $14 \times 17.5 \times \frac{1}{2} = 122.5$ $122.5 - 91.875 = 30.625\text{cm}^2$</p>	<p>6) $\frac{11}{12}, \frac{11}{6}, \frac{12}{3}, \frac{25}{12}, \frac{35}{12}$</p>
<p>7) $180^\circ - 59^\circ = 121^\circ$ $121^\circ \div 2 = 60.5^\circ$ $\angle \text{PSQ is } 60.5^\circ$</p>	

<p>8) $8.006 - 2.062 = 5.944$ $5.944 + 8.006 = 13.95$ $38.25 - 13.95 = 24.3$ $24.3 \div 3 = 8.1$ $8.1\text{km} = 8100\text{m}$ She run 8100m</p>	<p>9) $850\text{mi} = 0.85\text{L}$ $7u + 1u = 8u$ $0.85 \times 8 = 6.8$ $6.8 \div 16 = 0.425$ Each glass contained 0.425L</p>
<p>10) $26 \times 27 \times \frac{1}{2} = 351$ $14 \times 13 = 182$ $26 + 12 = 38$ $27 - 13 = 14$ $14 \times 38 = 532$ $532 = 182 = 714$ $714 - 351 = 363\text{cm}^2$</p>	<p>11) $5u + 3u + 9u = 17u$ $16779 \div 17 = 987$ $9u - 5u = 4u$ $987 \times 4 = 3948$ 3948 fewer American tourists than Japanese tourists.</p>
<p>12) $106^\circ + 44^\circ = 150^\circ$ $180^\circ - 150^\circ = 30^\circ$ $180^\circ - 30^\circ = 74^\circ$ $74^\circ + 150^\circ = 224^\circ$ Their sum is 224°</p>	<p>13) a) $\\$468 \times 85\% = \\397.80 She saved $\\$397.80$ in Feb. b) $\\$397.80 + \\$468 = \\$865.80$ $\\$2580 - \\$865.80 = \\$1714.20$ March to June $\rightarrow 4$ months $\\$1714.20 \div 4 = \\428.55 The average amount is $\\$428.55$</p>
<p>14) $100\% - 40\% = 60\%$ $60\% = \frac{3}{5}$ $1 - \frac{4}{5} = \frac{11}{15}$ $2u + 2u = 4u$ $\frac{11}{15} \div 4 = \frac{11}{60}$ $60\% \rightarrow \\$264$ $\frac{1}{60} \rightarrow \\24 $1 \rightarrow \\$1440$ $60\% \rightarrow \\$1440$ $1\% \rightarrow \\$24$ $100\% \rightarrow \\$2400$ He earns $\\$2400$</p>	<p>15) $350 \div 7 = 50$ $50 \times 2 = 100$ (g in 09) $7u - 2u = 5u$ $50 \times 5 = 250$ (b in 09) $250 - 100 = 150$</p>
<p>16) $100\% - 44\% = 56\%$ $3u + 5u = 8u$ $56\% \div 8 = 7\%$ $7\% \times 5 = 35\%$ $44\% - 35\% = 9\%$ $72 \div 9 = 8$ $8 \times 100 = 800$</p>	<p>17) $\\$5980 \times 10\% = \\598 $\\$467 \times 12 = \\5604 $\\$5604 + \\$598 = \\$6202$ (instalments) $\\$5980 \times 12\% = \\717.60 $\\$5980 - \\$717.60 = \\$5262.40$ $\\$6202 - \\$5262.40 = \\$939.60$ She will save $\\$939.60$</p>
<p>18) $\frac{1}{5} \rightarrow 1.25$ $1 \rightarrow 8.75$ $1 \rightarrow 18.9\text{kg}$ $1 \rightarrow 6.25$ $8.75 + 1.75 = 10.5$ He bought 18.9kg of ice. $1 - \frac{2}{7} = \frac{5}{7}$ $1 - \frac{4}{9} = \frac{5}{9}$ $\frac{5}{7} \rightarrow 6.25$ $\frac{5}{9} \rightarrow 10.5$ $\frac{1}{7} \rightarrow 1.25$ $\frac{1}{9} \rightarrow 2.1$</p>	