

Name : _____ ()

Date : _____

Class : Primary 6

SAT

SINGAPORE CHINESE GIRLS' SCHOOL
FIRST SEMESTRAL ASSESSMENT 2004
PRIMARY 6
MATHEMATICS (EM1 / 2)
BOOKLET A

15 Questions

25 Marks

Parent's Signature : _____

Total Time For Booklets A & B : 2 h 15 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

Name : _____ ()

Class : Primary 6 (SY / C / G / SE / P)

Booklet A (25 marks)

Questions 1 to 5 carry 1 mark each. Questions 6 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.

1. The value of the digit 6 in the numeral 3 256 841 is _____.

(1) $6 \times 1\,000$

(2) $6 \times 10\,000$

(3) $6 \times 100\,000$

(4) $6 \times 1\,000\,000$

2. A stool is about _____ high.

(1) 9 cm

(2) 90 cm

(3) 9 m

(4) 90 m

3. Judy spent \$5.40 on her lunch and twice as much on a book and had \$5.70 left. How much did she have at first?

(1) \$10.80

(2) \$16.20

(3) \$16.50

(4) \$21.90

4. The table below shows the marks obtained by Brenda in a test. Her average marks for the 4 subjects was 88. What is her Mathematics marks?

Subject	Marks (%)
English	86
Mathematics	?
Science	90
Chinese	87

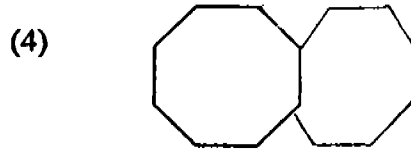
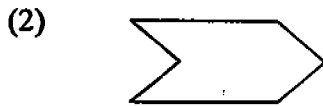
(1) 88

(2) 89

(3) 90

(4) 91

5. Which of the following unit shape cannot be tessellated?



6. How many eighths are there in $1\frac{3}{4}$?

- (1) 3
(2) 6

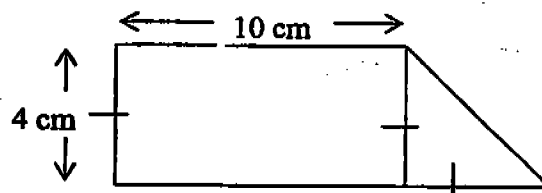
- (3) 7
(4) 14

7. Alice is ^{140cm}1.4 m tall. Brenda is ^{160cm}20 cm taller than her. What is their total height?

- (1) 1.6 m
(2) 3 m

- (3) 21.4 m
(4) 160 m

8. The figure below is made up of a rectangle and a right-angled triangle. It is not drawn to scale. Find the area of the figure.



- (1) 40 cm^2
(2) 48 cm^2

- (3) 50 cm^2
(4) 56 cm^2

9. Find the area of a circle with a diameter of 14 cm.

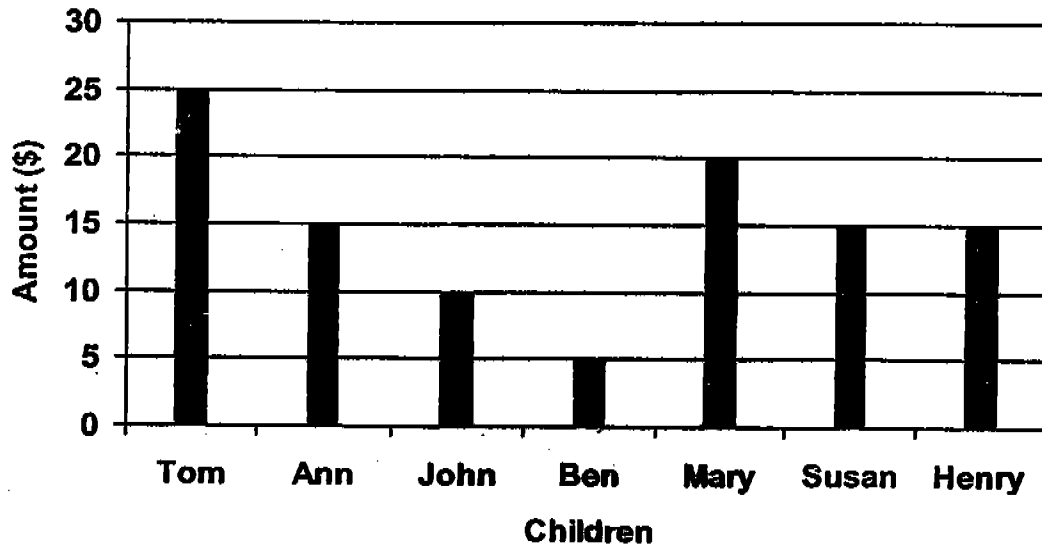
(Take $\pi = \frac{22}{7}$)

- (1) 22 cm^2 (3) 154 cm^2
(2) 44 cm^2 (4) 616 cm^2

10. Container A can hold half as much water as Container B. Find the amount of water that is needed to fill up both containers if the capacity of Container A is 400 cm^3 .

- (1) 0.8 l (3) 800 l
(2) 1.2 l (4) 1200 l

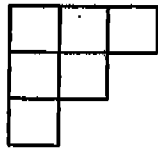
11. The graph below shows the savings of 7 children. What fraction of the boys' savings is the girls' savings?



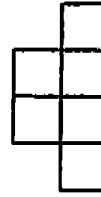
- (1) $1\frac{1}{10}$ (3) $\frac{3}{4}$
(2) $\frac{10}{11}$ (4) $\frac{10}{21}$

12. Which one of the following is the net of a cube?

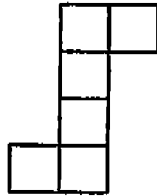
(1)



(3)



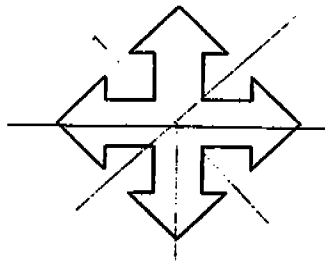
(2)



(4)



13. How many line / lines of symmetry does the figure shown below have?



(1) 1
(2) 2

(3) 3
(4) 4

14. Sam had 12 stamps and Tom had 3 stamps more than him. Find the ratio of the number of Tom's stamps to the number of Sam's stamps.

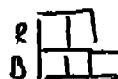
(1) 1:4
(2) 5:4

(3) 4:1
(4) 4:5

15. Deming mixed 2 tins of red paint with 3 tins of blue paint to get the purple paint that he wanted. How many tins of blue paint should he buy if he needed 15 tins of purple paint for a project?

(1) 5
(2) 6

(3) 9
(4) 15



NAME : _____

DATE : _____

CLASS : _____

WRITE		SHADE OVALS									
INDEX NUMBER		0	1	3	4	6	7	9			
		0	1	3		6	7	9			
		0	1	2	3	4	5	6	7	8	9
		0	1	2	3	4	5	6	7	8	9
		0	1	2	3	4	5	6	7	8	9
		A	B	C	D	E	F	G	H	I	J

SUBJECT:

EXAMPLE: IF YOU THINK THE 2ND OPTION IS THE CORRECT ANSWER SHADE THE OVAL LIKE THIS:



1

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SCORE: 23/25 (92%)

Name : _____ ()

Date : _____

Class : Primary 6^{SY} / C / G / SE / P

SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2004

PRIMARY 6

MATHEMATICS (EM1 / 2)

BOOKLET B

35 Questions

75 Marks

Parent's Signature : _____

Total Time For Booklets A & B : 2 h 15 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

Name : _____ ()

Class : Primary 6

Booklet B (20 marks)

Questions 16 to 35 carry 1 mark each. Write your answers in the spaces provided. Give your answers in the units stated.

16. Find the value of $65 - (3 + 4) \times 3 - 10 \div 5$

Ans : _____

17. The lowest common multiple of 4, 6 and 8 is _____.

Ans : _____

18. How many thousands are there in 7 230 000?

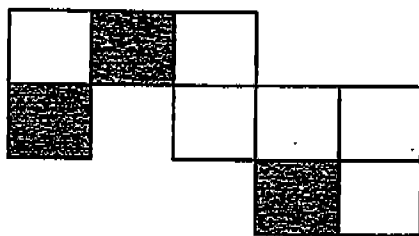
Ans : _____

19. Find the difference between $3\frac{5}{6}$ and $2\frac{5}{12}$.

Ans : _____



20. What fraction of the figure is shaded? Express your answer in its simplest form.



Ans : _____

21. $\frac{2}{3}$ of a number is 16. What is the number?

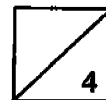
Ans : _____

22. 3 hundredths less than 421.356 is _____.

Ans : _____

23. The average height of 3 children is 1.42 m. Find the height of the third child if the total height of the other 2 children is 3.16 m.

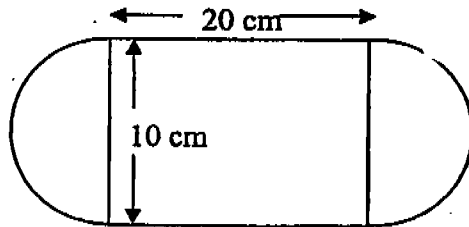
Ans : _____ m



24. Joey packed 5.4 kg of rice into 3 similar packets. How much rice was there in each packet?

Ans : _____ g

25. The figure below is not drawn to scale. Find its perimeter.
(Take $\pi = 3.14$)



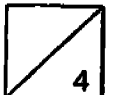
Ans : _____ cm

26. A show started at 1.35 pm and ended at 3.20 pm. Find the duration of the show.

Ans : ___ h ___ min

27. Daisy bought 9 oranges at 3 for \$1 and 4 pears at 80 cents each. How much did she spend?

Ans : \$ _____



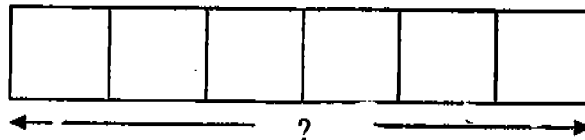
28. A cuboid of volume 245 cm^3 has a square base of side 7 cm. Find the height of the cuboid.

Ans : _____ cm

29. Kathy has 3 times as much as Mindy. Mindy has three \$1 coins, four 20-cent coins and five 10-cent coins. How much does Kathy have?

Ans : \$ _____

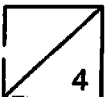
30. The area of a square table is 64 cm^2 . 6 similar tables are joined together to form a long table. Find the length of the long table.



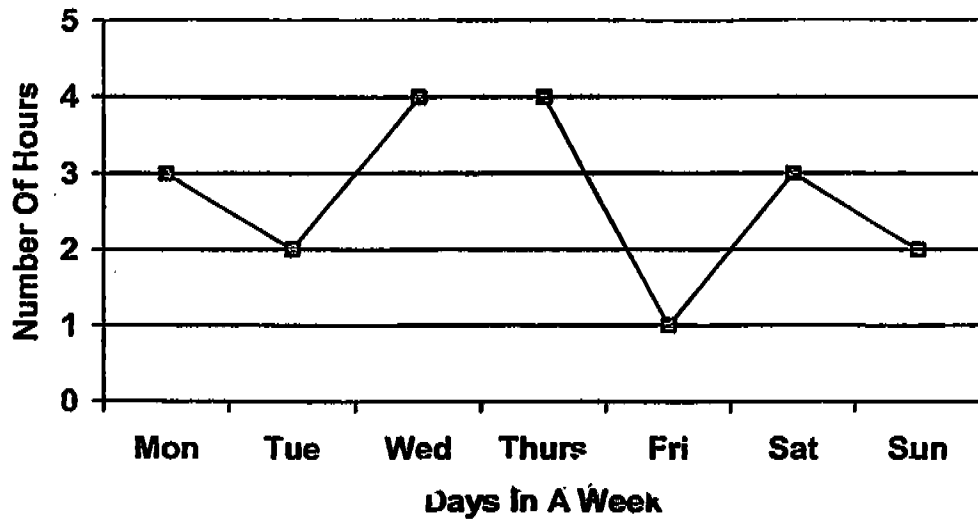
Ans : _____ cm

31. Peter obtained his driving licence when he was 20 years 3 months old. He started his first lesson at 18 year 6 months old. How long did he take to obtain his licence?

Ans : _____ yr

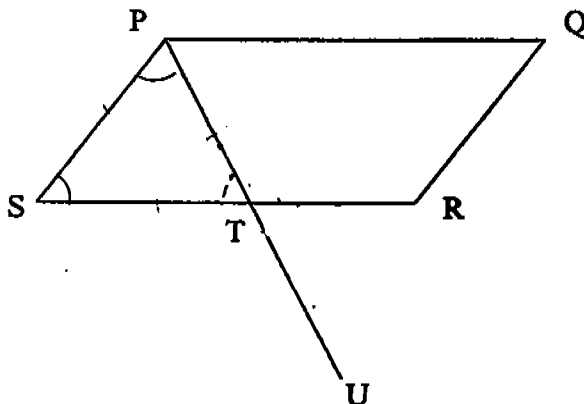


32. The graph below shows the amount of time Rob spent on doing his homework daily in a week. How many more hours did he spend on doing his homework on weekdays than on weekends?

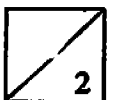


Ans : _____ h

33. The figure below is not drawn to scale. All lines are straight lines and PTS is an equilateral triangle. Find $\angle RTU$.



Ans : _____ °

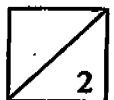


34. Ali took 3 h to travel to his destination at a uniform speed of 85 km/h. Find the distance he travelled.

Ans : _____ km

35. There are 1 000 members in a club. 45% of the members are female. How many more male members than female members are there?

Ans : _____



Name : _____ ()

Class : Primary 6

Booklet B (55 marks)

Write your answers to questions 36 to 50 in the spaces provided. For each question, show your working clearly in the space below it.

The number of marks available is shown in the brackets at the end of each question or part-question.

36. There are 3 kinds of beans in a bowl. $\frac{1}{3}$ of them are red beans, $\frac{3}{4}$ of the remainder are green beans and the rest are black beans. There are 20 black beans in the bowl. How many beans are there?



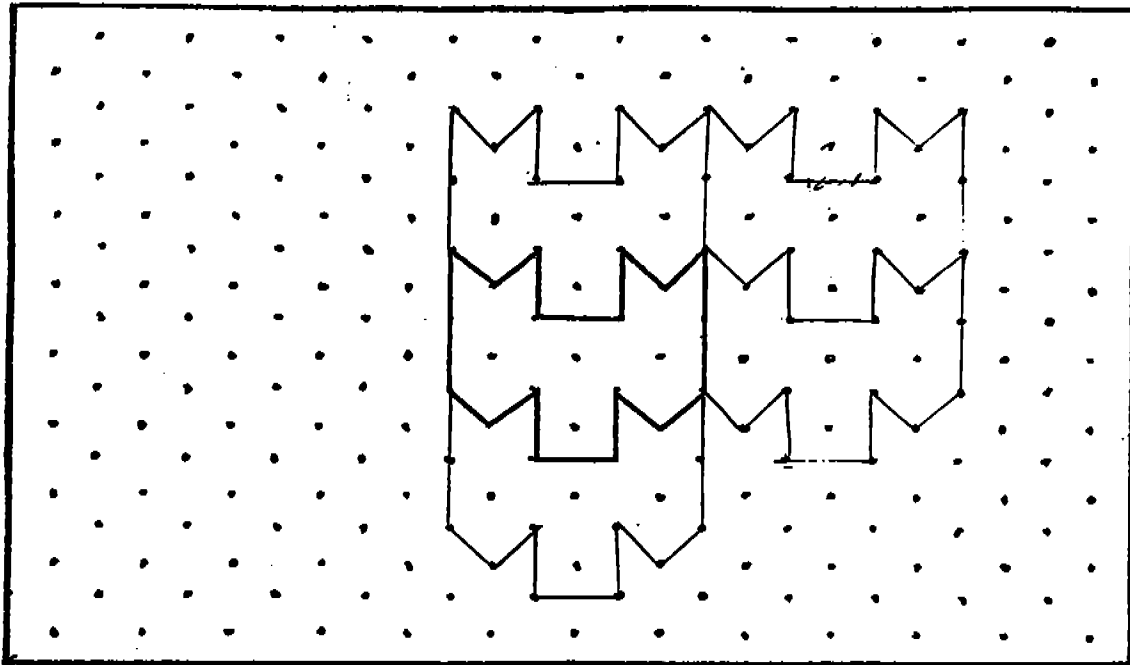
Ans : _____ [2]

37. When a number is divided by 3 or 4, it leaves a remainder of 1. Find the number if it is between 20 and 30.

Ans : _____ [2]

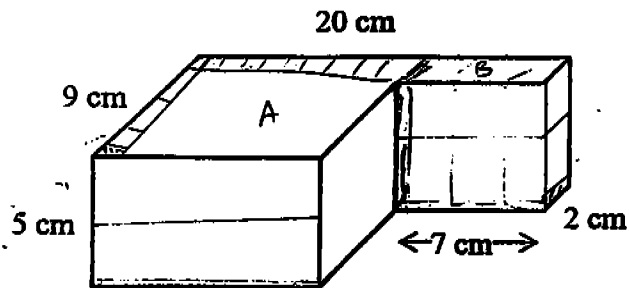


38. Tessellate 4 times around the unit shape given.

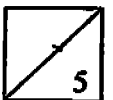


[2]

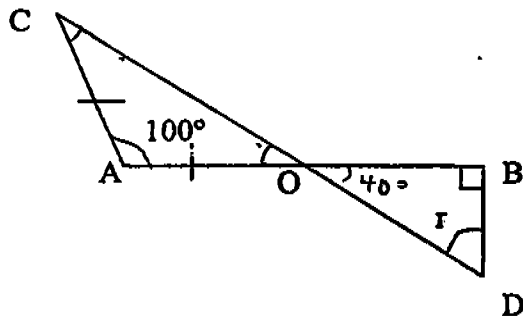
39. The solid below is not drawn to scale. Find the maximum number of 2-cm cubes that can be fitted into it.



Ans : _____ [3]

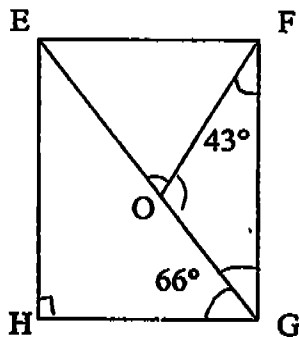


40. The figure below is not drawn to scale. AB and CD are straight lines. Find $\angle r$.

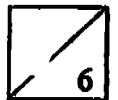


Ans : _____ [3]

41. The figure below is not drawn to scale. EFGH is a rectangle and all lines are straight lines. Find $\angle EOF$.



Ans : _____ [3]

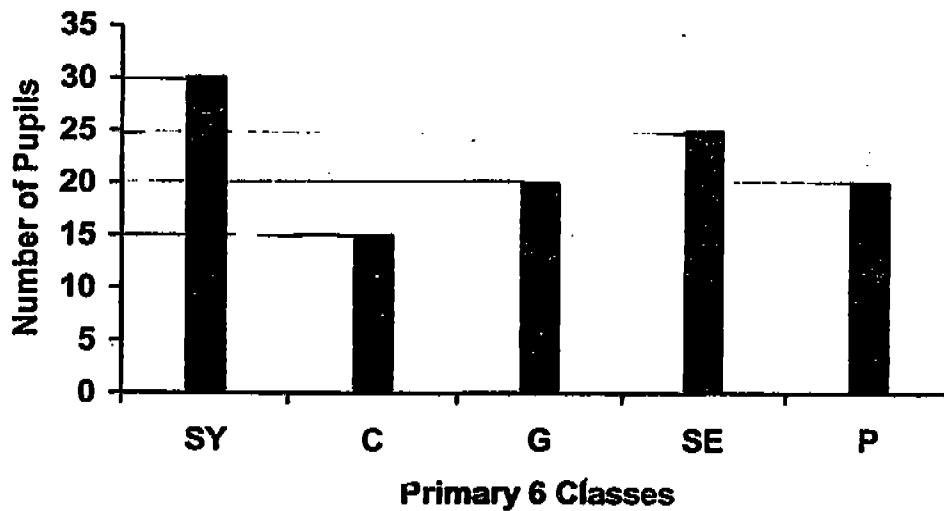


42. Limei had a box ^{of} sweets. She gave $\frac{7}{13}$ of the sweets to 4 of her friends and 4 of her cousins. Each friend received $\frac{3}{4}$ as many sweets as each of her cousin. If she had 432 sweets left, how many sweets did she give each friend?

Ans : _____ [4]



43. The graph below shows the number of pupils who own at least one pet.



- (a) If the total number of pupils is the same in all the classes, which class has the least number of pupils who DO NOT own any pet?
- (b) If the number of pupils who own pets in class 6P increased by 25%, what will be the total number of pupils in the 5 classes who own pets.

Ans : (a) _____ [1]

(b) _____ [3]



44. Fred, Glenn and Henry spent an average of \$35.70 weekly. Fred spent twice as much as Glenn and Glenn spent twice as much as Henry. How much more did Fred spend than Henry weekly?

Ans : _____ [4]



45. The ratio of the number of stalks of roses to the number of stalks of tulips in a box was 6 : 11. After selling 26 stalks of roses, there were 4 times as many stalks of tulips as roses left in the box.

- (a) How many stalks of flowers were in the box at first?
- (b) How many stalks of tulips were in the box?

Ans : (a) _____ [3]

(b) _____ [1]

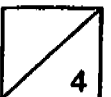


46. Eddy, Fred, Gerald, Harry and Ivan carried $3h$ bags of rice each. Jack carried 6 more bags of rice than each of the 5 men.

- (a) Find the total number of bags of rice carried by the 6 men.
(Give your answer in terms of h .)
- (b) Jack carried 12 bags of rice. What was the total number of bags carried by the 6 men?

Ans : (a) _____ [2]

(b) _____ [2]



47. Mr Huang knocked 160 nails along the perimeter of the ceiling of a function room measuring 20 m long by 12 m wide. The distance between each nail was equal. He hung 3 balloons on each nail.

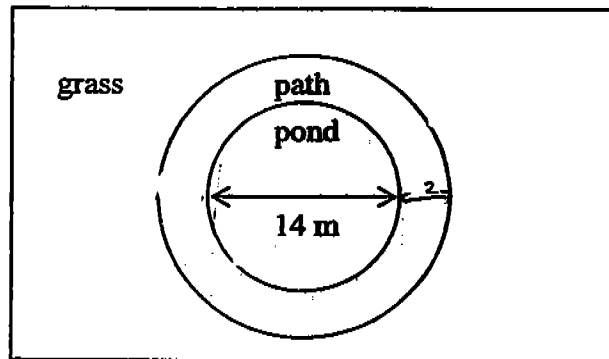
- (a) How many nails were knocked along the width of the ceiling?
- (b) How many balloons did he buy in all if he had 20 left?

Ans : (a) _____ [3]

(b) _____ [2]



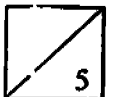
48. Mrs Wong had a garden measuring 50 m long and 30 m wide. There was a circular pond with a diameter of 14 m in the middle of the garden and a 2-m wide footpath around the pond.
(Take $\pi = 3.14$)



- (a) Find the area of the footpath around the pond.
(b) Find the area of the garden that was covered with grass.

Ans : (a) _____ [3]

(b) _____ [2]



49. Muthu set off from his house at 2.30 pm and travelled at a uniform speed of 76 km/h towards Hassan's house. He increased his speed to 90 km/h at 4 pm and reached Hassan's house at 6.00 pm.

- (a) Find the distance between Muthu's and Hassan's house.
- (b) Find the average speed of the whole journey?

Ans : (a) _____ [3]

(b) _____ [2]



50. A shopkeeper sells 3 types of files A, B and C. Their prices are \$6, \$5 and \$2.50 respectively. $\frac{1}{4}$ of the files are type C, 40% are type B and the rest are type A. If he collects \$250 from selling all his type C files,

- (a) how many files does he have altogether?
(b) how much will he collect if he sells all his files at a discount of 20%?

Ans : (a) _____ [2]

(b) _____ [3]



HAVE YOU CHECKED YOUR WORK ?

SINGAPORE CHINESE GIRL'S SCHOOL

FIRST SEMESTRAL ASSESSMENT 2004

PR. 6

MATH BOOKLET B

SA1

- | | | | |
|-----|-----|---------------------------------------|----------------------------|
| 1) | 26) | 1 h 45 min | |
| 2) | 27) | \$ 6.20 | |
| 3) | 28) | 5 cm | |
| 4) | 29) | \$ 12.90 | |
| 5) | 30) | 48 cm | |
| 6) | 31) | $1\frac{3}{4}$ yr | |
| 7) | 32) | 9 h | |
| 8) | 33) | 60° | |
| 9) | 34) | 255 km | |
| 10) | 35) | 100 | |
| 11) | 36) | 120 beans | |
| 12) | 37) | 25 | |
| 13) | 38) | | |
| 14) | 39) | 56 | |
| 15) | 40) | 50° | |
| 16) | 41) | 67° | |
| 17) | 42) | 54 sweets | |
| 18) | 43) | (a) 65Y | (b) 115 pupils |
| 19) | 44) | \$45.90 | |
| 20) | 45) | (a) 136 stalks | (b) 88 tulips |
| 21) | 46) | (a) $(18h + 6)$ | (b) 42 bags |
| 22) | 47) | (a) 31 nails | (b) 500 balloons |
| 23) | 48) | ^(a) 100.48 cm ² | (b) 1245.66 m ² |
| 24) | 49) | (a) 294 km | (b) 84 km/h |
| 25) | 50) | (a) 400 files | (b) \$1512.00 |