Name: _____ ( ) Date: _____

Class: Primary 5 Time: 2 h 15 min

SINGAPORE CHINESE GIRLS' SCHOOL (PRIMARY)

FIRST SEMESTRAL ASSESSMENT 2004

PRIMARY 5

MATHEMATICS

EM 1/2

BOOKLET A

SCH

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: 5

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 '1' in 213 489 is _____.

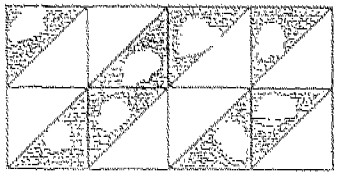
1) 100 000
2) 10 000
3) 1 000
4) 100

2. The best estimate for 29 × 43 is _____.

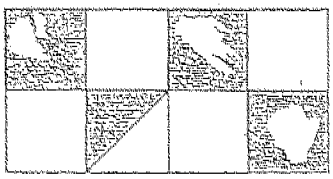
1) 30 × 40
2) 20 × 50
3) 30 × 100
4) 30 × 50

3. Which of the following figure has the largest shaded area?

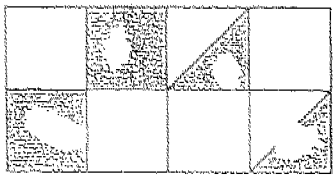
1)



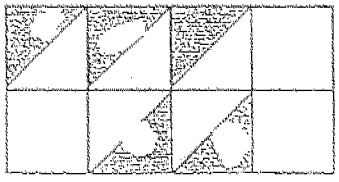
3)



2)



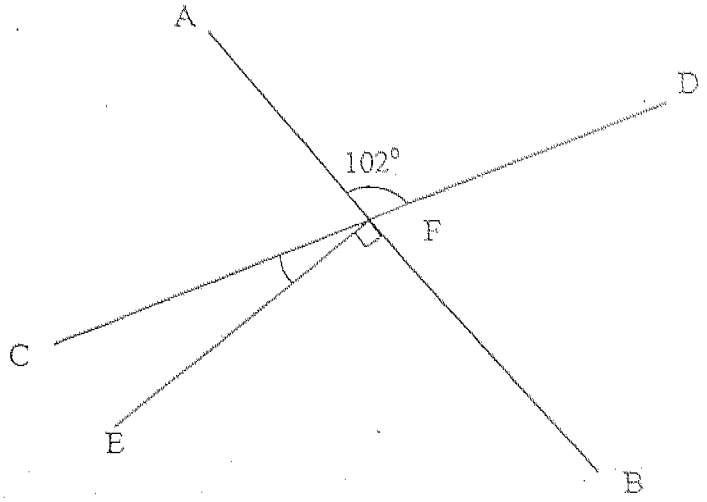
4)



4. The perimeter of a square is 20 cm. The area of that square is _____ cm^2

1) 10
2) 25
3) 80
4) 400

5. The figure below is not drawn to scale. AB and CD are straight lines. ∠EFB is a right angle. ∠AFD is 102°. ∠CFE is _____ °



1) 12
2) 22
3) 45
4) 102

6. This number has 6 digits. Which is the number?

1) 20 000 × 6
2) 8 000 × 1
3) 6 000 × 2
4) 500 × 10

7. At a furniture exhibition, there were 6 times as many adults as children. 587 children were present. How many people were at the exhibition?

1) 1 174
2) 2 935
3) 3 522
4) 4 109

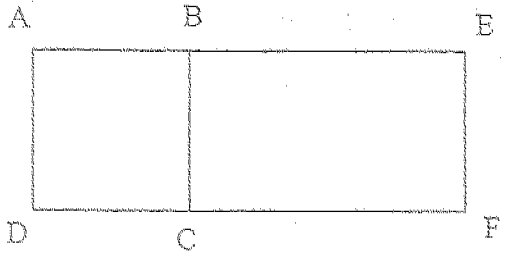
8. $29 \times 35 = 27 \times 35 +$ ☐

1) 35×2
2) 27×2
3) $27 + 35$
4) $35 - 27$

9. Half of a number is 56.
What is $\frac{3}{4}$ of that number?

1) 42
2) 70
3) 84
4) 112

10. The figure below is made up of a square and a rectangle. The length of the rectangle is twice that of the square. If the area of the square is 64 cm^2, the length of AE is _____ cm.



1) 8
2) 12
3) 16
4) 24

11. The ratio of Peter's to Mariam's weekly expenditure is 3 : 5.
If the average weekly expenditure is $24, Mariam spends $ _____ per week.

1) 15
2) 18
3) 30
4) 48

12. Study the chart below. Which of the following child is the heaviest?

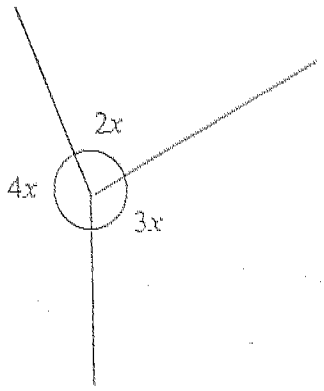
1)	1st child	$25\frac{1}{2}$ kg
2)	2nd child	20 kg 500 g
3)	3rd child	25 kg 5 g
4)	4th child	25.55 kg

1) 1st child
2) 2nd child
3) 3rd child
4) 4th child

13. The ratio of the area of Square A to Rectangle B is 1 : 4. If Square A has an area of $36cm^2$ and the breadth of Rectangle B is 9 cm, the length of Rectangle B is _____ cm.

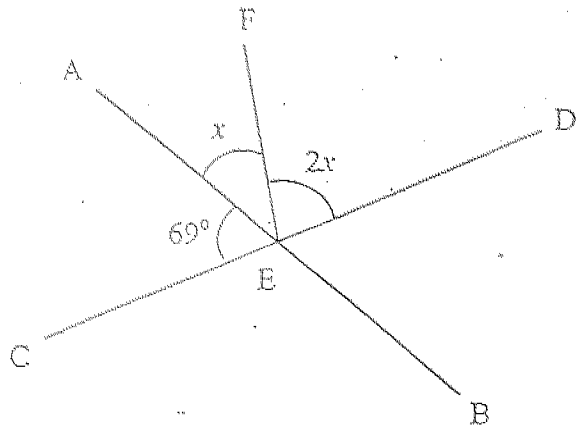
1) 24
2) 16
3) 12
4) 4

14. Study the figure below. The size of the largest $\angle$ is _____ °.



1) 40
2) 80
3) 160
4) 240

15. The figure below is not drawn to scale. AB and CD are straight lines. $\angle AEC = 69°$ $\angle AEF = x°$ and $\angle FED = 2x°$. Find $\angle AEF$.



1) $37°$
2) $69°$
3) $74°$
4) $111°$

Name: _____
Class: 5

Booklet B (55 marks)

Questions 16-35 carry 1 mark each.
Write your answer in the space provided. Give your answer in the units stated.

16. In 789 204 = 780 004 + ☐, the missing number is ☐.

Ans: _____

17. Anne has twice as many rubber bands as May. They have a total of 192 rubber bands. How many rubber bands does May have?

Ans: _____

18. What is the lowest common multiple of 8 and 7?

Ans: _____

19. Mary is 6 years old. Her mother is 6 times as old as she. How old will her mother be when she is 9 years old?

Ans: _____ years old

4

20. Simplify: $19 - 11 + 2 \times 4$

Ans: _____

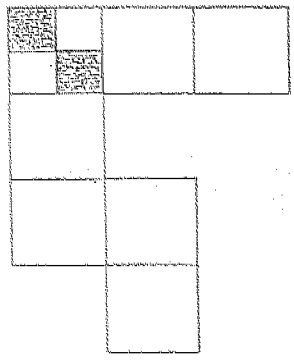
21. A box contained 58 pencils. How many pencils were there in 34 such boxes?

Ans: _____

22. There were 498 packets of biscuits to be shared equally among 83 children.
How many packets did each child get?

Ans: _____

23. In the figure below, each big square is made up of 4 square cm.
What fraction of the figure has been shaded?



Ans: _____

4

24. Eliza withdrew $\frac{3}{4}$ of her savings and found that she had $135 left in the bank.
How much did she withdraw?

Ans: $_____

25. The fraction that is greater than $\frac{1}{2}$ but less than $\frac{3}{4}$ is $\frac{\square}{8}$
What is the missing number in the box?

Ans: _____

26. How many pieces of string each 48 cm long could Ahmad cut from a coil 10 m 8 cm long?

Ans: _____

27. Rahman left his home at 1.55 pm for the office. He reached there at 2.35 pm.
How long did he take to get to the office?

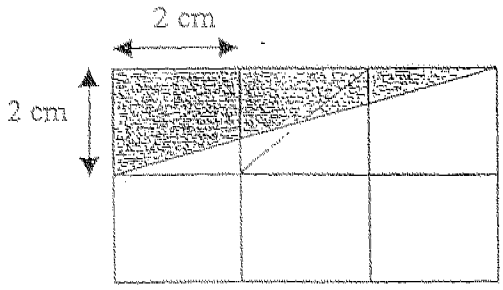
Ans: _____ h

4

28. A pail can hold 5*l* 20 *ml* of water and a plastic container can hold 4*l* 900 *ml*. How much more water can the pail hold?

Ans: _____ *l*

29. The figure is made up of 6 two-cm squares. What area has been shaded?



Ans: _____ cm^2

30. Ali ran twice round a rectangular field which was 50 m long and 30 m wide. What was the distance covered?

Ans: _____ m

31. 3 boys' Mathematics marks were in the ratio 8 : 9 : 10. If the lowest marks was 64, what was the highest marks?

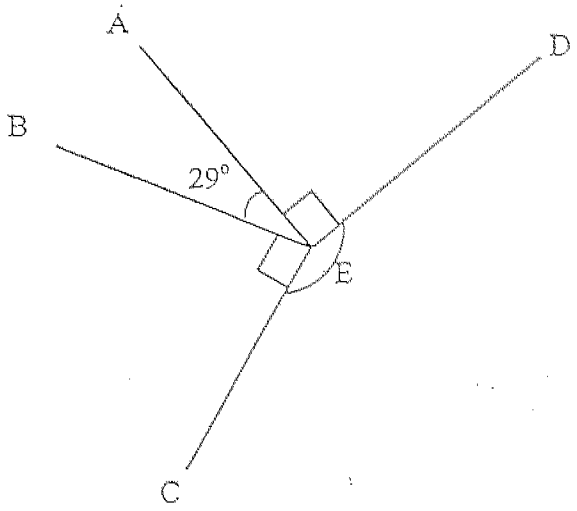
Ans: _____

4

32. The length of a rectangle is twice its breadth. If the perimeter of the rectangle is 60 cm, what is the length of the rectangle?

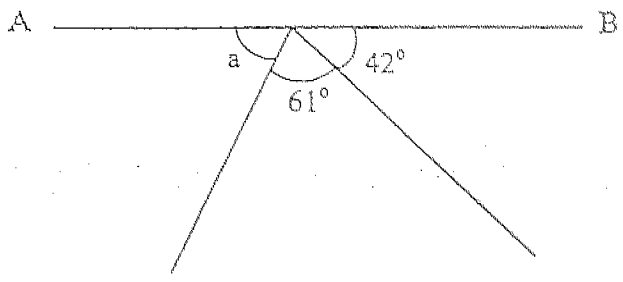
Ans: _____ _____ cm

33. In the figure, not drawn to scale, $\angle AEB = 29°$, $\angle AED$ and $\angle BEC$ are right angles. Find $\angle DEC$.



Ans: _____ °

34. The figure is not drawn to scale. AB is a straight line. $\angle a =$ _____ °



Ans: _____ °

35. A cube has _____ equal faces.

Ans: _____

4

Name: _____ ( )
Class: Primary 5

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 brackets [ ] at the end of each question or part-question.

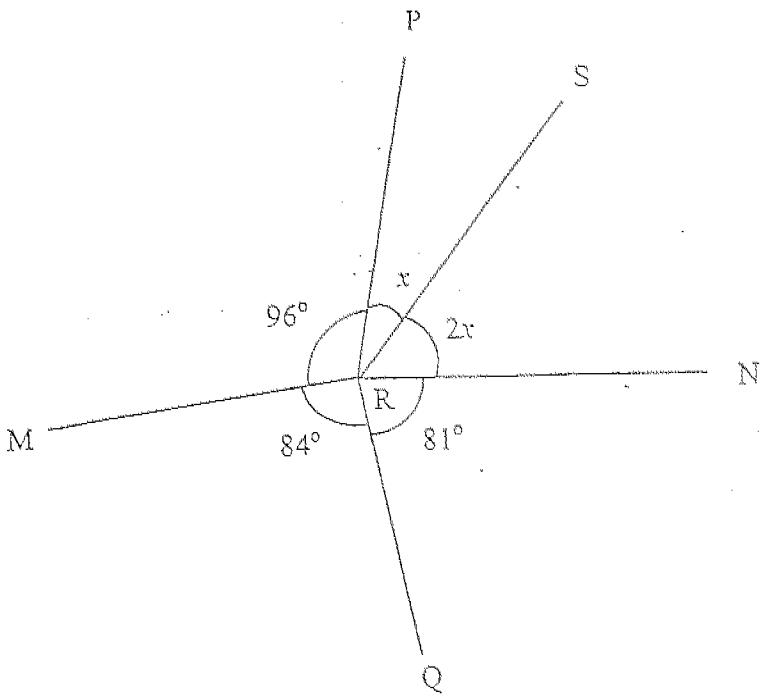
36. A teacher bought 17 dictionaries each costing $19.90. At the cashier, she found that she was short of $2. How much money did she have with her?

Ans: _____ (2)

37. The perimeter of a rectangle is twice that of a square. The square has a length of 18 cm. If the breadth of the rectangle is 28 cm, what is its length?

Ans: _____ (2)

/4



38. In the figure above $\angle MRP = 96°$, $\angle MRQ = 84°$, $\angle QRN = 81°$, $\angle PRS = x°$ and $\angle SRN = 2x°$. Find the value of x.

Ans: _____ (2)

39. Sally packed some tarts equally into 8 boxes and had 36 tarts left over. If she used 9 boxes instead, she would need 59 more tarts. How many tarts ~~tarts~~ did she make?

Ans: _____ (3)

5

40. Mr Tan hired a car and used $17\frac{2}{5}l$ of petrol on Monday, $22l$ on Tuesday and $19\frac{3}{5}l$ on Wednesday.

a) How many litres did he use for the 3 days?

b) If $1l$ of petrol cost $1.60, how much did he spend on petrol for the 3 days?

Ans: (a) _____ (1)

(b) _____ (2)

3

41. Susan's and Lucy's savings were in the ratio 2 : 5 in June. In July, Susan deposited $114 but Lucy withdrew $114. Then they found that they had an equal amount of money in the bank. How much money did each have in June?

Ans: Susan _____ (2)

Lucy _____ (1)

3

42. In a project, Team A's allowance was $2 more than Team B per day.

a) In 1 week when Team A received $35, how much did Team B receive?

b) Each day, Team B spent $1.00 while Team A spent $1.90. What was the total amount of money both teams had left at the end of 1 week?

Ans: (a) _____ (2)

(b) _____ (2)

4

43. Kim had 16 sweets more than her brother, Joe. After Joe had eaten 4 of his sweets, he found that he had only $\frac{1}{6}$ of what Kim had. Find the total number of sweets both had at the beginning.

Ans: _____ (4)

4

44. Mother spent 3 days baking some cakes and biscuits. At the end of the first day she found that she had $\frac{1}{2}$ of the total amount of flour left. On the second day she used $\frac{5}{8}$ of the remainder and found that she had 2.4 kg of flour left.
How much flour did she have at the beginning?

Ans: _____ (4)

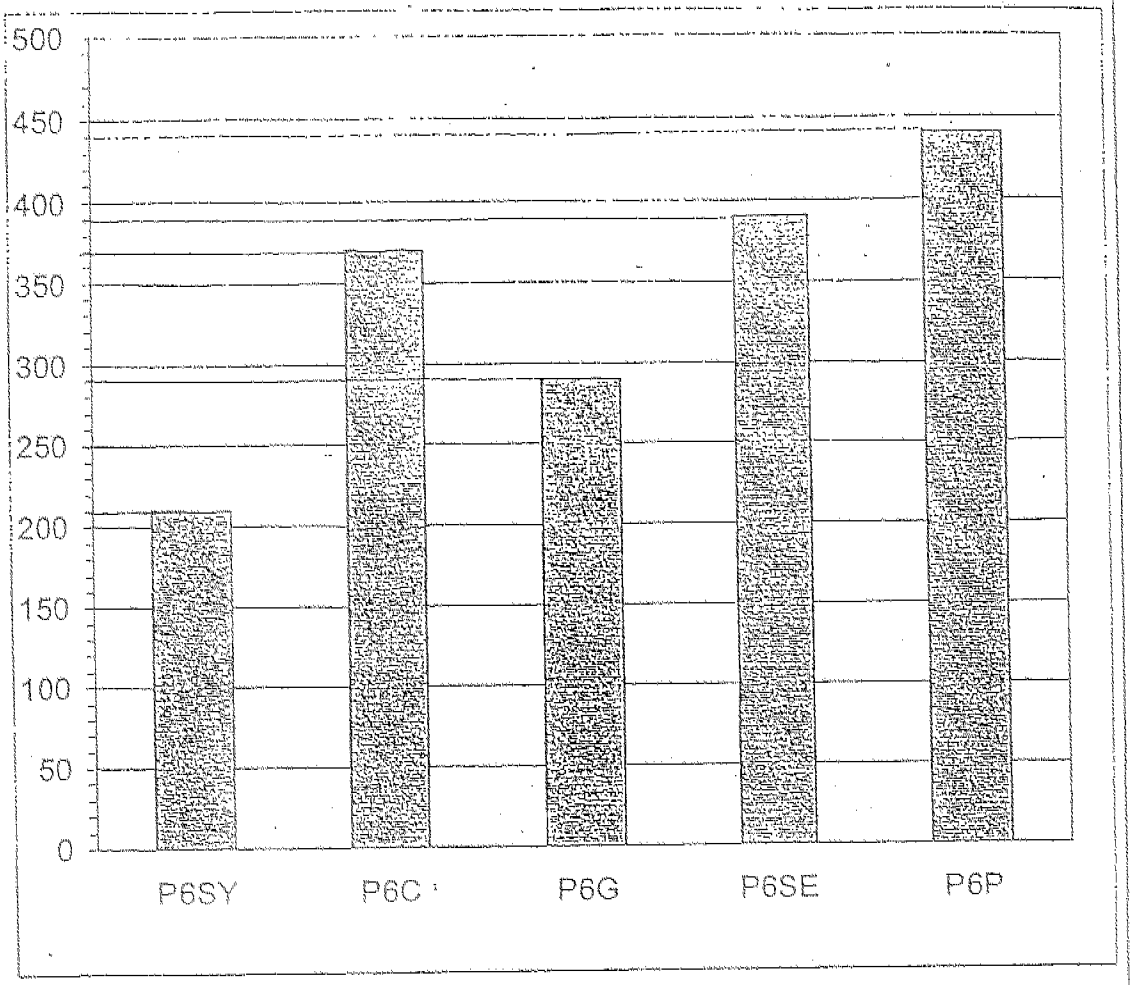
4

45. A fruiterer had 118 oranges and 2 cartons of apples. He sold 64 oranges and bought another 24 more apples to add to one of the cartons of apples. The ratio of the number of oranges to the number of apples became 3 : 5.
How many apples were there at first?

Ans: _____ (4)

4

46. The graph below shows the amount of money collected for a school building fund by five Primary 6 classes.



Study the graph and answer the following questions.

a) What was the total amount collected by the five classes?

b) The targeted amount was $3 500. How much more must they raise to meet their target?

Ans: a) _____ (2)

b) _____ (2)

4

47. Mr Lim sold umbrellas. For every umbrella sold, he received a commission of $2.50 and for every 10 umbrellas sold, he received an additional $12. For the first month, Mr Lim received $234.50 as commission. How many umbrellas did he sell?

Ans: _____ (5)

5

48) A can $\frac{1}{4}$ filled with paint weighed 2.7 kg. When it is completely filled, it weighed 7.2 kg. What is the total weight of 6 half-filled cans?

Ans: _____ (5)

5

49. Container A has twice as much rice as Container B. Container B has 38 kg more than Container C. There is a total of 310 kg of rice in the three containers.

a) How much rice is there in Container C?

b) How much more rice does Container A have than Container C?

Ans: a) _____ (3)

b) _____ (2)

5

50. The ratio of the number of blue pens to the number of red pens was 1 : 3. When Mrs Tan bought 54 more blue pens and threw away 6 red pens, the ratio of the number of blue pens to that of red pens became 3 : 1. How many pens of each colour does Mrs Tan now have?

Ans: Blue: _____ (4)

Red: _____ (1)

5

SINGAPORE CHINESE GIRLS SCHOOL (PRIMARY)
FIRST SEMESTRAL ASSESSMENT 2004
PRIMARY 5 MATHEMATICS

SM

1) 2

2) 1

3) 1

4) 2

5) 2

6) 1

7) 4

8) 1

9) 3

10) 4

11) 3

12) 4

13) 2

14) 3

15) 1

16) 9200

17) 14 rubber bands

18) 56

19) 39

20) 16

21) 1972 pencils

22) 6 packets

23) 1/14

24) $ 405

25) 5

26) 21 pieces of string

28) $0.12\ cm^2$

29) 6 cm

30) 320

31) 80 marks

32) 20

33) 151

34) 77

35) 6

36) $ 336.30

37) 44 cm

38) 33°

39) 796 tarts

40) a) 59 litres

b) $ 94.40

41) a) $ 52

b) $ 380

42) a) $ 21

b) $ 35.70

43) 32 sweets

44) 12.8 kg

45) 66 apples

46) a) $ 1700

b) 1800

47) 65 umbrellas

48) 22.5 kg

49) a) 49 kg