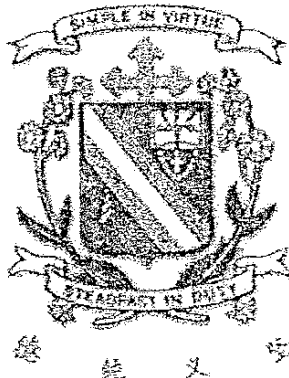Name: _ _____ · (   )

Class: Primary 5 (   )

CHIJ ST NICHOLAS GIRLS' SCHOOL

PRIMARY 5

SECOND SEMESTRAL ASSESSMENT 2007

MATHEMATICS

BOOKLET A

11 OCTOBER 2007

Duration of Paper: 2h 15 min

96

Do not open the booklet until you are told to do so.
Follow all instructions carefully.

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) $8\ 095\ 909 = 8 \times 1\ 000\ 000 + 9 \times \boxed{} + 5 \times 1\ 000 + 9 \times 100 + 9.$

    What is the missing number in the box?   5000

    1) 10   2) 100

    3) 1 000   4) 10 000
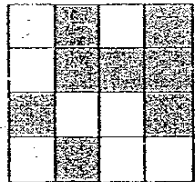
2) Find the product of 37.08 and 56.

    1) 20.7648   2) 207.648

    3) 2076.48   4) 20 764.8

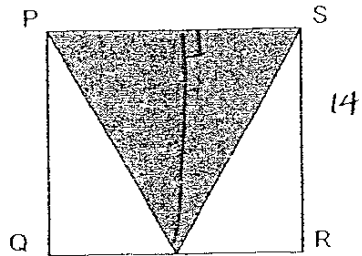3) How many more parts must be shaded in the diagram below so that only 75% of the whole figure is shaded?

4) A rectangle has a perimeter of 60 cm. Its breadth is 10 cm. Find the ratio of its length to its breadth.

    1) 1 : 1   2) 1 : 2

    3) 2 : 1   4) 2 : 5

91

2

5) PQRS is a square of side 14 cm. Find the shaded area.

P — S
14
Q — R

$\sqrt{}$ 56 cm^2 2) 98 cm^2

3) 100 cm^2 4) 196 cm^2

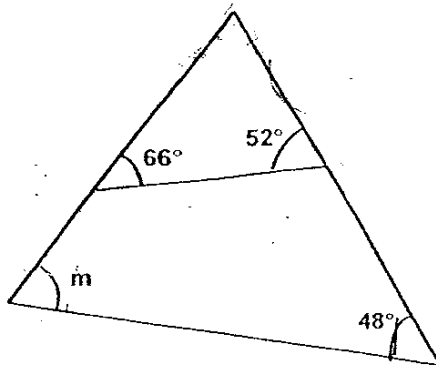6) The average of 4 numbers is 13.5. Three of the numbers are 18, 11.2 and 20.8. Find the last number.

1) 4   2) 9.5

3) 40.5   4) 54

7) Find ∠m.

66°   52°   m   48°

1) 62°   2) 66°

3) 70°   4) 132°

92

3

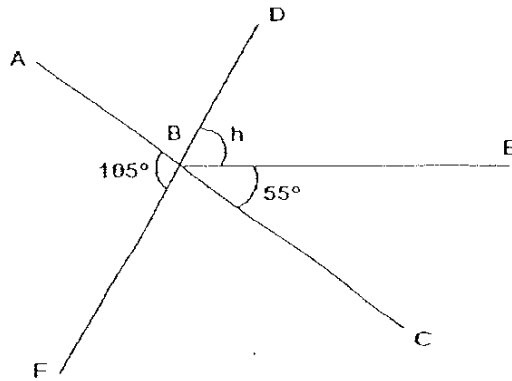8) Mrs Tan bought 2 kg of flour. She used 1 kg 200g to bake a cake. What fraction of the flour had she left?

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

2) $\frac{2}{3}$

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

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

9) ABC and DBF are straight lines. Find ∠ h.

1) 20°

2) 35°

3) 50°

4) 105°

10) The area of a piece of square land is 64 m². Find the perimeter of the piece of land.

1) 8 m

2) 16 m

3) 32 m

4) 128 m

P3

4

11) 50 people attended a party. There were 16 more men than women. What percentage of the people at the party were women?

1) 32 %　　　　　　　2) 34%

3) 66%　　　　　　　4) 68%

12) The table below shows Ron's collection of marbles of different colours.

MARBLES	
White and Green	108
Red and White	300
Red, White and Green	368

Find the ratio of the number of white marbles to the total number of marbles.

1) 5 : 36　　　　　　2) 5 : 46

3) 5 : 51　　　　　　4) 5 : 97

13) How many quarters are there in the sum of $5\frac{5}{6}$ and $3\frac{5}{12}$?

1) 9　　　　　　　　2) 37

3) 85　　　　　　　4) 91

P4

5

14) Uncle Sam has 15 boxes of oranges. Each box has 48 oranges.
He discarded 36 rotten ones and repacked the remainder equally into
18 plastic bags. How many oranges are there in each plastic bag now?

1) 10   2) 24

3) 38   4) 40

5) At a gift shop, stickers are sold at 3 for $ 2.50. What is the maximum number of
stickers Suling can buy with $39?
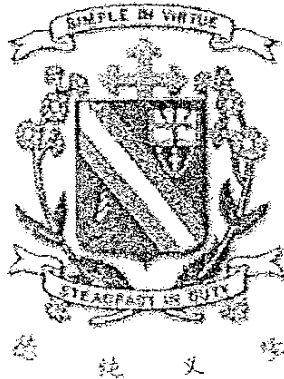
1) 41   2) 44

3) 45   4) 48

_____ End of Section A _____

95

6

Name: _____ (   )

Class: Primary 5 (   )

CHIJ ST NICHOLAS GIRLS' SCHOOL

PRIMARY 5

SECOND SEMESTRAL ASSESSMENT 2007

MATHEMATICS

BOOKLET B

11 OCTOBER 2007

Booklet A	/ 20
Booklet B	/ 80
Total Marks	/ 100

_____
Parent's/ Guardian's Signature

Duration of Paper: 2h 15 min

26

Do not open the booklet until you are told to do so.
Follow all instructions carefully.

Questions 16 to 25 carry 1 mark each.
Write your answers in the space provided. Give your answers in the units stated. **(10 marks)**

Do not v

in this sʃ

16) Find the value of $88 \div 2 \times 4 - (24 - 16)$.

Ans: _____

17) Complete the number pattern.

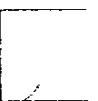1.478, ___A___ , ___B___ , 0.878, 0.678, 0.478, 0.278

A : _____

B : _____

18) The difference between 2 whole numbers is ⌣. The product of these 2 numbers is 1800. What are the 2 numbers?

Ans: _____

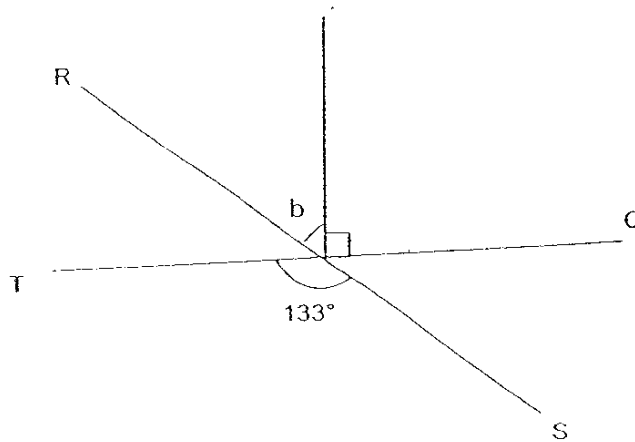19) Express 1.34 as a percentage.

Ans: _____ %

9ʔ

8

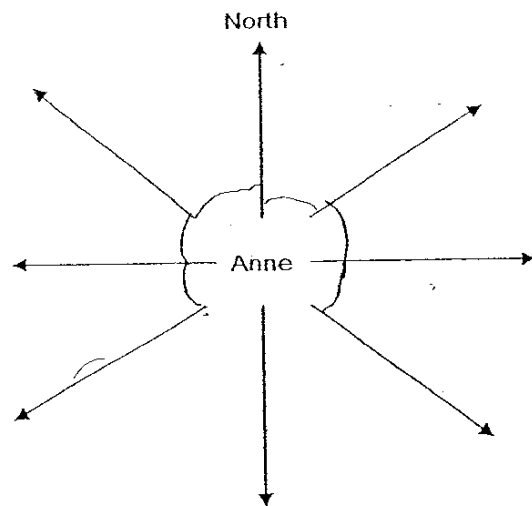20) Express 4 m 6 cm in metres.

Ans: _ _____ m

21) The figure below is not drawn to scale. RS and TQ are straight lines.
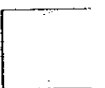   Find ∠ b

Ans: _____ °

22) Anne is facing North. If she turns 135° anti-clockwise, she will be facing the
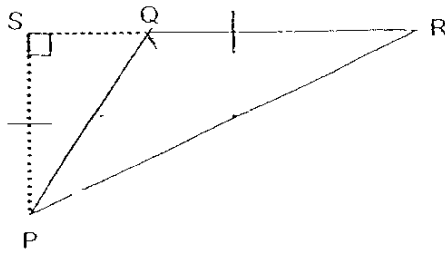   playground. In which direction would the playground be?

Ans: _____ ___

98

9

23) In triangle PQR, QR = 6 cm, SQ = 2 cm and PQ = 7 cm.
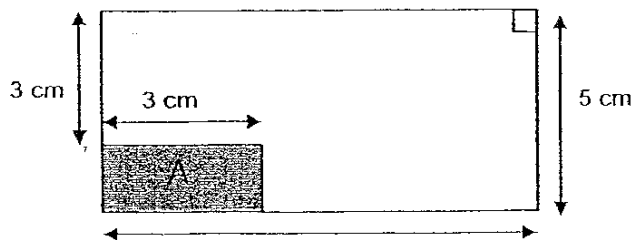Find the area of triangle PQR.

: _____ cm^2

24) Uncle Raju can pack 7 boxes of fruits in 15 minutes.

At this rate, how many boxes of fruits can he pack in $2\frac{1}{4}$ hours?

Ans: _____ boxes

25) Find the area of the unshaded part of the figure shown below.

Ans: _____ cm^2

19

10

Questions 26 to 35 carry 2 marks each. Write your answers in the space provided. Show all workings clearly and give your answers in the units stated.

(10 marks)
20

26) Madam Soon has $45. She gave $\frac{1}{3}$ of the money to Meng Li and $\frac{1}{5}$ of the remainder to Meng Hua. How much money had Madam Soon left?

27) Mr Wong cut a 150 cm ribbon into 3 pieces. The length of each ribbon is in the ratio 3 : 5 : 12. Find the difference in length between the shortest and the longest piece of ribbon.

Ans: _____ cm

28) A documentary started at 9.45 a.m. and ended at 12.30 p.m. How long was the documentary? Leave the answer in hours.
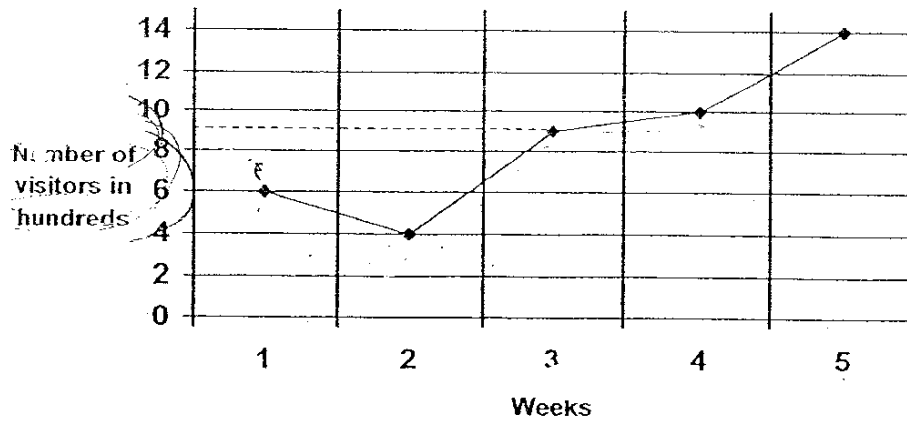
_____ hours

/ 00

29) The car park charges at a multi-storey car park in AZ shopping mall are as follows:

First $\frac{1}{2}$ hour	Free
Next 1 hour	$2.00
Each additional hour or part thereof	$1.50

How much does it cost if Lynn parked her car from 1.30 p.m. to 5.25 p.m.?

Ans:

30) The following graph shows the number of visitors to the zoo over a period of 5 weeks.

Number of visitors in hundreds

Weeks

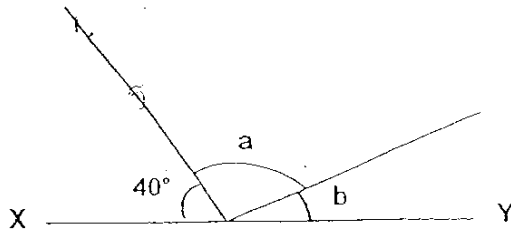What was the greatest increase in the number of visitors to the zoo?

Ans: _____

10/

12

31) XY is a straight line. $\angle$ a is 3 times the size of $\angle$ b. Find $\angle$ a.

Ans: _____ °

32) Claudia spent 5 min 32 s doing her English quiz. She spent $10\frac{1}{4}$ min on her Chinese quiz and 367s on her Mathematics quiz. Find the average time she spent on each of the quizzes.

Ans: _____ min _____ s

33) The ratio of Alice's present age to her mother's present age is 3 : 5. In 8 years' time, their average age will be 44 years old. What is Alice's age now?
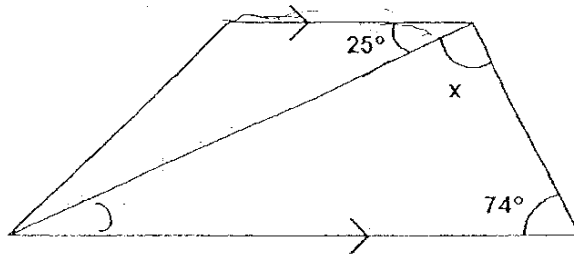
Ans: _____ years old

102

13

34) A cubical tank of side 30 cm contains 10.8 ℓ of water.
Find the water level in the tank.

35) The figure below is not drawn to scale. Find $\angle x$.

Ans: _____ °

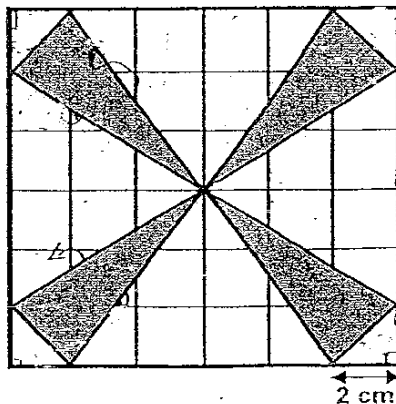_____ **End of Section B** _____

103

For questions 36 to 48, show your workings 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 the question or part-
question.

---

36) Madam Lim bought 4 ℓ 250 $m\ell$ of milk at $4 a litre and 2.5 ℓ of fruit juice at
$2 a litre. She paid for them with $\frac{2}{5}$ of her money. How much money had she
left?

Ans: _____ _____ _____ (3m)

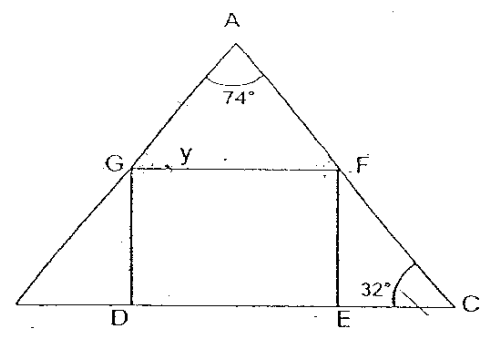37)   Find the total area of all the shaded parts.

2 cm

ᵣo⁴

38) The area of a square is 30% of the area of a rectangle. The rectangle measures 25 m by 30 m. Find the length of the side of the square.

39) The figure below is not drawn to scale. DEFG is a rectangle. Find $\angle y$.
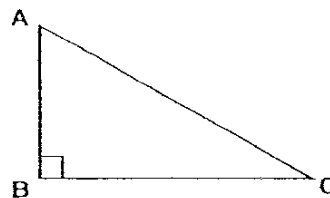

Ans: _____ (3m)

105

40) Mrs Bala cycles 1.6 km every day on weekdays. On weekends, she cycles $\frac{1}{2}$ km more than what she cycles on weekdays. How far does she cycle in a

(3m)

41) The lengths AB, BC and AC of a triangle are in the ratio 3 : 4 : 5 respectively. The perimeter of the triangle is 96 cm. Find the area of the triangle.

Ans: _____ _____ (3m)

106

17

42) A rectangular container has a height of 15 cm and a length of 13 cm. The ratio of the breadth to the height of the container is 2 : 5.

   a) Find the base area of the container.

   b) What is the volume of the water in the container if it is $\frac{3}{5}$ filled? Leave the answer in litres.

43) The rates for printing photographs at Shop A and Shop B are given below.

Number of photographs	Cost per photograph at Shop A	Cost per photograph at Shop B
First 50	20 ¢	25 ¢
Next 50	15 ¢	8 ¢

a) If Devi paid $13.75 at Shop A, how many photographs were printed?
b) Raina wants to print the same number of photographs as Devi.
   Which shop should she visit in order to get a cheaper rate?

108

44) Ricky accidentally spilled some ink on his year-end result slip.

   (a) What could be his highest possible average score?

   (b) If his average score is 90 and his Mathematics score is 96, what is his Science score?

```
Result Slip

English          · 92
Chinese           85
Mathematics       9
Science           8
Average Score     9
```
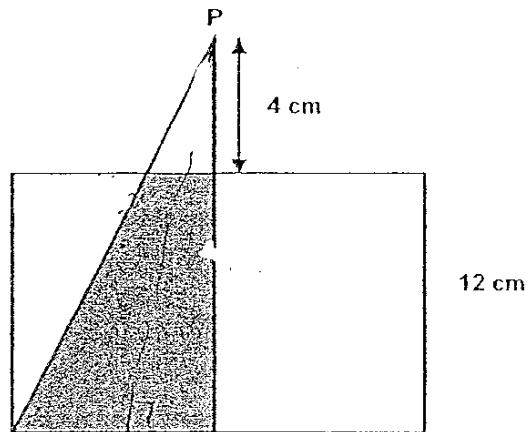
(b) _____ (____)

45) A right-angled triangle, PRS, is placed over a rectangle as shown in the figure below. The ratio of the area of Triangle PRS to the area of the shaded part is 8: 7.

(a) Find the area of the shaded part.
(b) The total area of the unshaded parts in the rectangle is 129 cm². Express the breadth of the rectangle as a percentage of the length of the

P

4 cm

12 cm

//0

21

46) The cost of 5 cupcakes and 4 buns is $5.80.
4 buns and 6 muffins cost $4.60. Each cupcake costs twice as much as
each muffin. What is the cost of each bun?

47) Mr Hamid gave $\frac{5}{8}$ of his salary to his wife and $\frac{2}{3}$ of the remainder to

his mother. Then he spent 14% of the balance on a pair of earphones.

(a) If Mr Hamid earns $4600, find the total amount of money he gave to his wife and mother.
(b) How much did he spend on the pair of earphones?

112

23

48) Each solid below is made up of 2-cm cubes.

(a) How many cubes are needed to form the 9th figure?
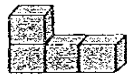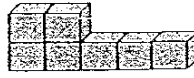(b) Find the volume of the 4th figure.

Fig. 1   Fig. 2   Fig. 3

Ans: (a) _____ (3m)

(b) _____ (2m)

_____ **End of Section C** _____

𝘯3

CHIJ Primary School

Primary 5 Maths SA2 Exam (2007)

Answer Keys

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

16. 168

17. A : 1.278   B : 1.078

18. 40,45

19. 134%

20. 4.06

21. 43

22. South-west

23. 18cm²

24. 63 boxes

25. 54cm²

26. $24

27. 67.5cm

28. $2\frac{3}{4}$ hr

29. $6.50

30. 300

31. 105°

32. 7 mins 18 sec

33. 27 years old

34. 12cm

35. 81°

36. $33

37.   40cm^2

38.   15m

39.   74°

40.   12.2km

41.   384cm^2

42a.   78cm^2
42b.   0.702ℓ

43a.   75
43b.   Shop A

44a.   91.25
44b.   87

45a.   63cm^2
45b.   75%

46.   70¢

47a. $4025
47b. $80.50

48a.   25
48b.   80