Pei Chun Public School
Semestral Assessment 2 – 2005
Mathematics
Primary 5

Booklet A

Name: _____ (   )   Date: 28 October 2005

Class: Primary 5 _____   Time: 2 h 15 min

Maths Teacher: _____

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.**

(20 marks)

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1.   What is the missing number in the box?

$$69\ 001 = 60\ 000 + \boxed{} + 1$$

    (1)   9

    (2)   90

    (3)   900

    (4)   9000   (   )

2.   The mass of a solid metal box is 20 kg, rounded off to the nearest kilogram. Which of the following is the actual mass of the box?

    (1)   19.01 kg

    (2)   19.49 kg

    (3)   20.45 kg

    (4)   20.61 kg   (   )

3. Express 8 m in km.

    (1)   0.008 km

    (2)   0.08 km

    (3)   800 km

    (4)   8000 km   (   )

4. What is the value of $12 + 3 \times 6 - 4 \div 2$?

    (1)   15

    (2)   19

    (3)   28

    (4)   43   (   )

5. Mr Liam uses an average of 11 ℓ 200 mℓ of petrol each day. How many litres of petrol will he use in a week?

    (1)   1.6 ℓ

    (2)   1600 ℓ
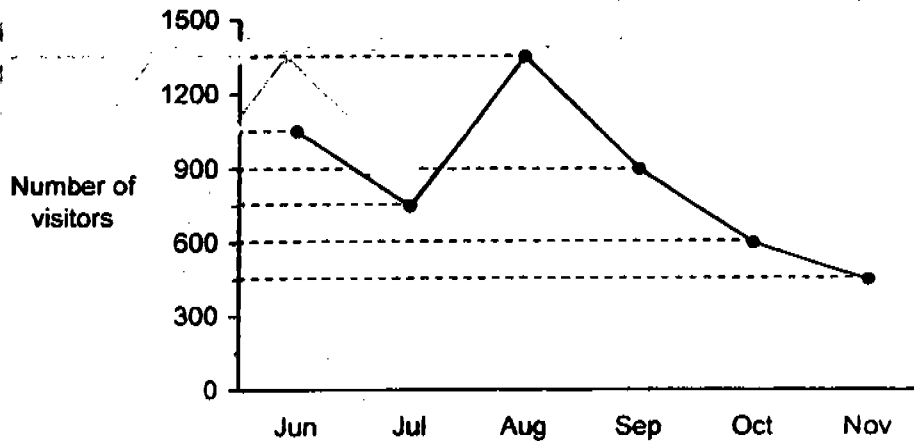
    (3)   78.4 ℓ

    (4)   78 400 ℓ   (   )

6. The table below shows the postage rates for sending letters to Malaysia.

20 g	$0.35
50 g	$0.50
100 g	$0.80
Per additional step of 100 g	$0.70

Find the postage for a letter of mass 170 g.

    (1) $1.50

    (2) $1.60

    (3) $1.65

    (4) $1.85   (   )

7. The line graph below shows the number of visitors to a museum over a period of 6 months.

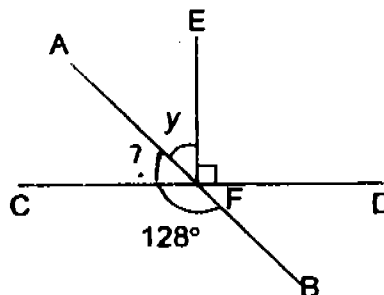

Between which two months did the number of visitors decrease the most?

(1) Jun and Jul

(2) Aug and Sep

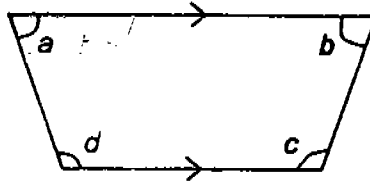(3) Sep and Oct

(4) Oct and Nov   (   )

8. In the figure below, AFB and CFD are straight lines. Find ∠y.

(1) 38°

(2) 45°

(3) 52°

(4) 64°   (   )

9. Which statement about the quadrilateral below is true?

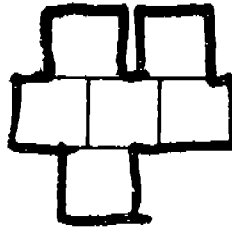(1) $\angle a + \angle d = 180°$

(2) $\angle b = \angle c$

(3) $\angle b = \angle d$

(4) $\angle c + \angle d = 180°$ (   )

10. The figure below is made up of six 3-cm squares.

Find the perimeter of the figure.

(1)   36 cm

(2)   42 cm

(3)   54 cm

(4)   72 cm   (   )

11. If Rajoo gives Sarah $15, he will have the same amount of money as Sarah. If Sarah gives Rajoo $15, she will have $\frac{1}{7}$ the amount of money as Rajoo. How much money do they have altogether?

   (1) $30

   (2) $80

   (3) $105

   (4) $120   (   )

12. Ming Wei has 3 cards. Each of the cards has a different whole number on it. When he adds the 3 numbers, he gets 15. When he multiplies the 3 numbers, he gets 72. What is the difference between the biggest and smallest numbers on the cards?

   (1)   11

   (2)   9

   (3)   8

   (4)   7

13. **Refer to Booklet K.**

14. **Refer to Booklet K.**

15. **Refer to Booklet K.**

End of Booklet A

Pei Chun Public School
Semestral Assessment 2 – 2005
Mathematics
Primary 5

Booklet B

Name : _____ (   )

Class : Primary 5

Date : 28 October 2005

Time : 2 h 15 m ̚

Maths Teacher : _____

Parent's Signature : _____

Marks :

Booklet A	20
Booklet B	65
Booklet K Qns 34, 35, 46 – 48	15
T O T A L	100

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

16.   3 004 000 is 100 000 more than _____.

Ans : _____
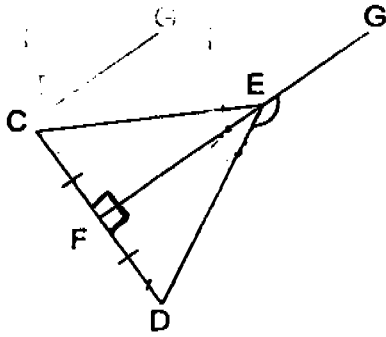
17. $51.7 \times 100 =$ _____.

Ans : _____

18.   A school has 56 classrooms. In each classroom there are 42 tables. How many tables are there altogether?
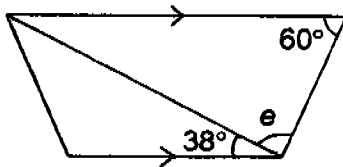
Ans : _____

SCORE ⬚

19. In the figure below, CDE is an equilateral triangle and FEG is a straight line. Find ∠DEG.

Ans : _____ _____ °

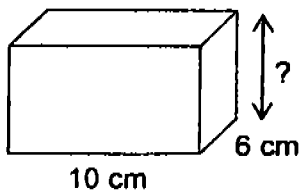20. The quadrilateral below is not drawn to scale. Find ∠e.

Ans : _____ _____ °

21. Mother has $7\frac{1}{6}$ kg of sugar. She has $2\frac{2}{3}$ kg more sugar than Mrs Goh. How much sugar does Mrs Goh have?

Ans : _____ _____ kg

22. The volume of the cuboid below is 240 cm³. Find its height.
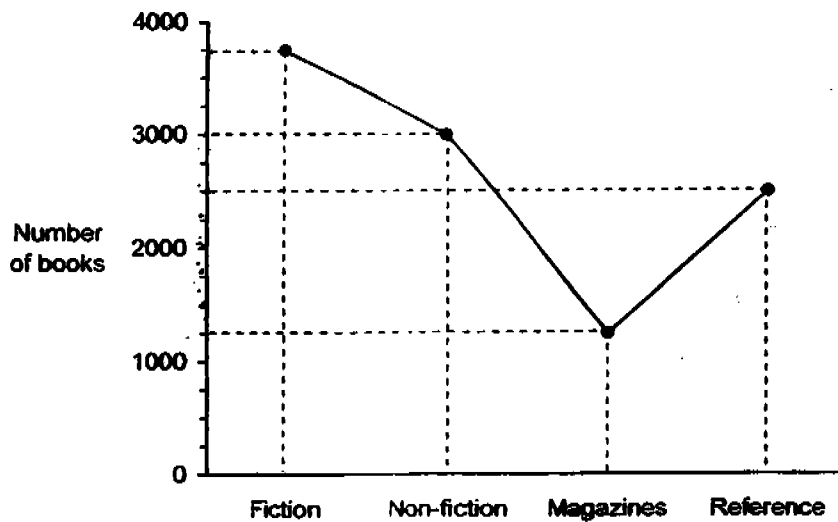

?
6 cm
10 cm

Ans : _____ _____ cm

23. The total mass of boxes A, B and C is 28 kg. The ratio of the mass of box A to that of box B to that of box C is 1 : 2 : 4. Find the mass of box C.

Ans : _____ kg

24. The average of 3 numbers is 300. Two of the numbers are 123 and 456. What is the third number?

Ans : _____

25. The graph below shows 4 main types of books found in a school library.

How many **more** non-fiction books than magazines are there?

Ans : _____

SCORE

Questions 26 to 33 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (16 marks)
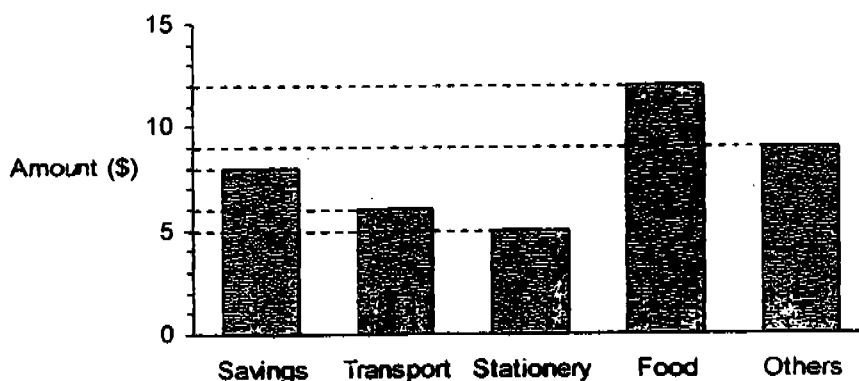
26. The total surface area of a cube is 96 cm^2. Find its volume.

Ans : _____ cm^3

27. A book club has 250 members. 60% of the members are boys and the rest are girls. How many **more** boys than girls are there in the club?

Ans : _____

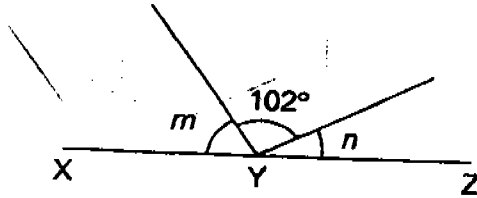28. The bar graph below shows how Joshua spends his weekly pocket money.

What fraction of his weekly pocket money is spent on food? Give your answer in its simplest form.
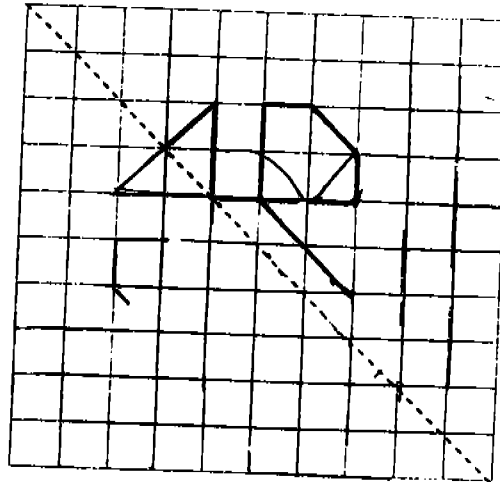
Ans : _____

SCORE

(to the next page) 29

29. The figure below is not drawn to scale. XYZ is a straight line. $\angle m$ is twice the size of $\angle n$. Find $\angle n$.

Ans: _____ °

30. In the diagram below, the dotted line is the line of symmetry. Complete the symmetric figure.

31. Emma had 110% of Fatimah's stickers. When Emma gave Fatimah 50 stickers, Fatimah had 110% of Emma's stickers. How many stickers did they have altogether?

Ans : _____

SCORE

32. Faizal and Greg shared a sum of money. $\frac{3}{8}$ of Faizal's share is the same as $\frac{1}{3}$ of Greg's share. Greg got $12 more than Faizal. How much money did Greg get?

Ans : _____

33. The table below shows the Maths results of 40 pupils from Primary 4G.

Marks	0 – 20	21 – 30	31 – 40	41 – 50	51 – 60	61 – 70	71 – 80	81 – 100
Number of pupils	0	1	2	4	5	12	10	6

The ratio of the number of pupils who passed the test to the number who failed is 7 : 3. What was the minimum mark needed for a pupil to pass the test?

Ans : _____

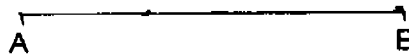34. Refer to Booklet K.

35. Refer to Booklet K.

SCORE

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(Go on to the next page)
465 of 473.

For questions 36 to 48, show your working clearly in the space below each question 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.   (Total: 39 marks)
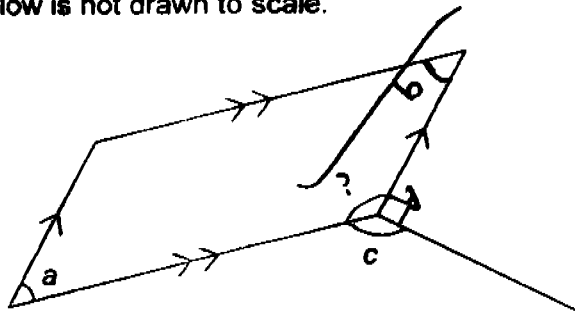
36.   (a)   Draw a quadrilateral ABCD in which ∠BAD = 120° and AB = AD = 5 cm.
               AB // CD and AD // BC. The line AB has been drawn for you.   [2]

A   B

(b)   What is the name given to the quadrilateral you have drawn?

Ans :   (b) _____ [1]
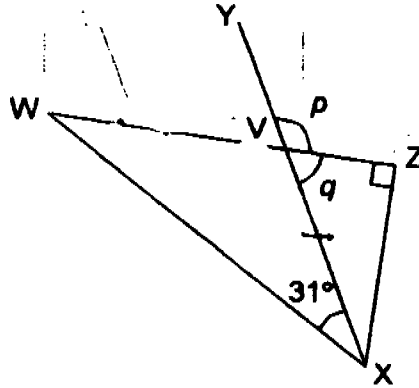
37.   The figure below is not drawn to scale.

(a)   On the figure, mark an angle which is equal in size to ∠a.
       Label it ∠b.   [1]

(b)   If ∠a = 46°, find ∠c.

Ans :   (b) _____ [2]

SCORE

38. The figure below is not drawn to scale. VWX is an isosceles triangle. XVY and WVZ are straight lines.

Find

(a) ∠p

(b) ∠q

Ans : (a) _____ [2]

(b) _____ [1]

39. The average mass of 4 parcels is 1950 g. The total mass of 2 of the parcels is 3580 g. Find the average mass of the other 2 parcels.

Ans : _____ [3]

SCORE

40. A packet of nuts cost 35¢ more than a packet of sweets. The total cost of 3 packets of sweets and 2 packets of nuts is $5.20. Find the cost of a packet of nuts.

Ans : _____ [3]

41. In a bookstore, 250 English books, 100 Chinese books and 50 Malay books were on sale.

(a) What percentage of the books on sale were Chinese books?

(b) The usual price of a Malay book was $20. All the Malay books were sold at a discount of 20%. How much money was received from the sale of the Malay books?

Ans : (a) _____ [2]

(b) _____ [2]

SCORE

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42. The average savings of Amy, Brad, Choon Ming and Devi is $75. The ratio of the total savings of Amy and Brad to the total savings of Choon Ming and Devi is 7 : 3. Choon Ming's savings is $\frac{1}{4}$ that of Devi's. Find the average savings of Amy, Brad and Choon Ming.
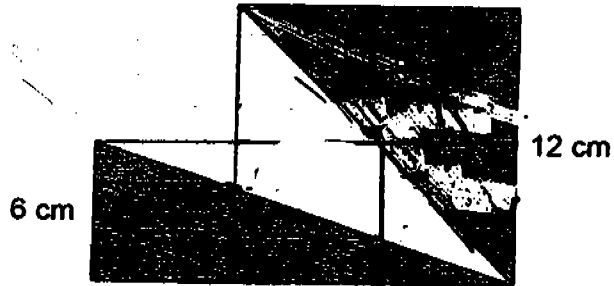
Ans : _____ [5]

SCORE

43. Mr Tan had 560 notes in his safe. There were 235 $10 notes, 70 $50 notes and some $1000 notes. $\frac{2}{7}$ of the notes were $100 notes. Express the ratio of the value of the $100 notes to that of the $1000 notes. Give your answer in its simplest form.

Ans : _____ _____ [5]

SCORE

44. The figure below shows two squares of sides 6 cm and 12 cm.

12 cm

6 cm

(a) Find the ratio of the area of the smaller square to the area of the bigger square in its simplest form.

(b) What is the area of the unshaded part of the figure?

Ans : (a) _____ [2]

(b) _____ [3]

SCORE

45. In Ai Lee's savings box, there were some 50¢ coins and some 20¢ coins. The ratio of the number of 50¢ coins to the number of 20¢ coins was 5 : 4. When she took out eighteen 50¢ coins, the number of 50¢ coins left was $\frac{1}{8}$ the number of 20¢ coins. How much money was in the savings box at first?

Ans: _____ [5]

46. **Refer to Booklet K.**

47. **Refer to Booklet K.**

48. **Refer to Booklet K.**

Set by : Mrs Celine Low
Vetted by: P5 Maths Committee

End of Booklet B

SCORE

PEI CHUN PUBLIC SCHOOL
SEMESTRAL ASSESSMENT 2 - 2005
MATHEMATICS
PRIMARY FIVE

1) 4

2) 3

3) 1

4) 3

5) 3

6) 1

7) 2

8) 1

9) 1

10) 2

11) 2

12) 4

13) 1

14) 4

15) 3

16) 2904000

17) 5170

18) 2352

19) 150

20) 82

21) 4 1/2

22) 4

23) 16

24) 321

25) 1750

26) 64

27) 50

28) 3/10

29) 26

30)

31) 1050

32) $ 108

33) 61 marks

34 to 35 (booklet K)

36) b) rhombus

37) b) 136°

38) a) 118°

    b) 62°

39) 2110 g

40) $ 1.25

41) a) 25%

    b) $ 800

42) $ 76

43) 16 : 95

44) a) 1 : 4

    b) 54 cm^{2}

45) $ 13.20