SA1

MAHA BODHI SCHOOL
2004 SEMESTRAL ASSESSMENT 1
MATHEMATICS

Name : _____ _____( )

Class : Primary 5 ( )

Date : 14 May 2004

Duration: 2 h 15 min

BOOKLET A

* Do not open the booklet until you are told to do so.

* Read the instructions carefully.

* Attempt ALL questions.

* The total time for answering Booklet A and Booklet B is 2h 15 min.

Section A : Each question from 1 to 5 carries 1 mark. Each question from 6 to 15 carries 2 marks.
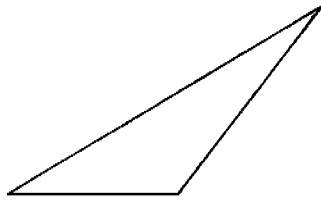For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade the correct oval on the OAS.
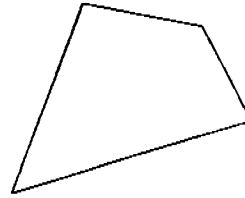
(25 marks)

1. Last week 42 386 people watched the soccer match at the National Stadium. Express this number to the nearest 100.

   (1)   42 000
   (2)   42 300
   (3)   42 390
   (4)   42 400

2. In $\dfrac{25}{7} = 3 + \dfrac{\square}{7}$

   (1)   4
   (2)   2
   (3)   5
   (4)   10

3. Which one of the following has the same value as $2 + \dfrac{3}{50}$?

   (1)   2.06
   (2)   2.3
   (3)   2.6
   (4)   2.03

4. The side of a square field is 32 m, how much will it cost to build a fence around the field if 1 metre cost $15 ?

   (1) $480
   (2) $960
   (3) $1024
   (4) $1920

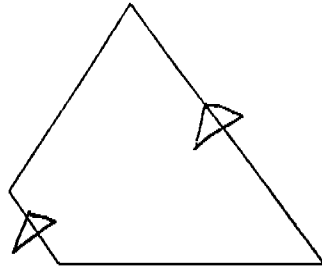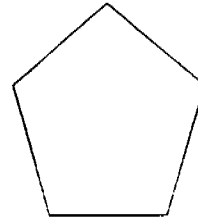5.   Which one of the following figures has parallel lines ?

(1)   (2)

(3)   (4)

6.   Find the value of 16 – 5 x 2 + 18 ÷ 3

      (1)   0
      (2)   8
      (3)   12
      (4)   28

7.   12 pupils were each given 10 carnival tickets to sell. 4 of the pupils sold 3
      tickets each and the rest sold all their tickets. How many of the tickets
      were left ?

      (1)   28
      (2)   92
      (3)   108
      (4)   120

8. $\frac{1}{3}$ of a number is 42. What is $\frac{1}{2}$ of this number ?

      (1)   126
      (2)   63
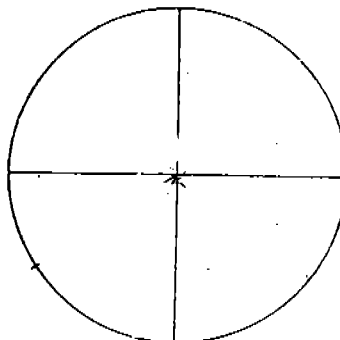   (3)   21
      (4)   7

9. Shirley cut a pizza into quarters. She then cut one of the quarters into 3 equal pieces as shown in the figure. Leon ate 2 of the smaller pieces. What fraction of the pizza was left?

(1) $\dfrac{1}{3}$

(2) $\dfrac{2}{3}$

(3) $\dfrac{3}{4}$

(4) $\dfrac{5}{6}$

10. $4.7 \div 1000 = \boxed{} \div 10$
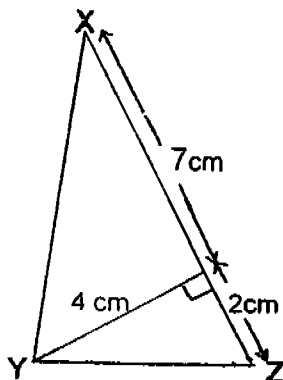
What is the missing number in the box?

(1) 0.047
(2) 0.47
(3) 47
(4) 470
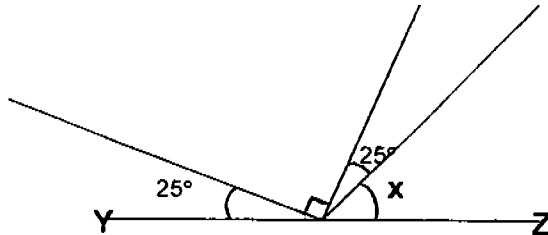
11. What is the area of triangle XYZ?

(1) 4 cm²
(2) 14cm²
(3) 18cm²
(4) 36cm²

12. Jim paid $6.20 for 5 apples and 4 pears. If he had bought 1 apple less, he only had to pay $5.60. how much had he to pay for 4 apples and 6 pears ?

    (1) $2.40
    (2) $4.80
    (3) $5.60
    (4) $7.20

13. In the figure below , not drawn to scale, YZ is a straight line. Find $\angle x$.

    (1)   25°
    (2)   40°
    (3)   50°
    (4)   65°

14. Mary pays 10¢ and Grace pays 15¢ to buy a bag of 80 rubber bands. They share the rubber bands in the same ratio as the amount of money they pay to buy them. How many rubber bands does Mary get ?

    (1)   16
    (2)   32
    (3)   40
    (4)   55

15. Tim and Sharon share some money. If Sharon gives $\frac{2}{5}$ of her share to Tim, Tim will have twice as much money as she. What is the ratio of his money to Sharon's **at first** ?

    (1)   2 : 5
    (2)   3 : 5
    (3)   4 : 5
    (4)   2 : 1

4

Section B: Questions 16 to 35 carry 1 mark each. Write your answers in the spaces provided on the answer sheet.
Give your answers in the **units** stated.

(20 marks)

16. Write nine million and forty-six thousand in numerals.

17. The value of the digit "7" in 72 638 is _____.

18. In $5 \times 8 + 4 \times 8 = \boxed{} \times 8 + 48$, the number in the missing box is _____.
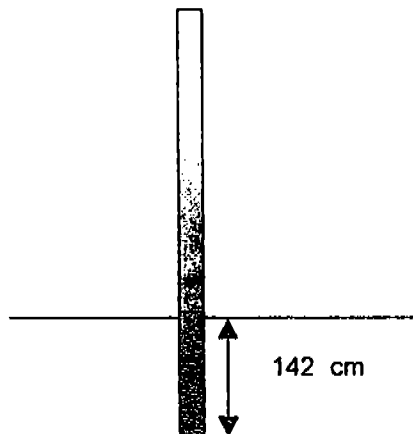
19. What is the 1ˢᵗ number in the 11ᵗʰ row ?

Row 1	1						
Row 2	2	3	4				
Row 3	5	6	7	8	9		
Row 4	10	11	12	13	14	15	16
Row 5	17	.....	.....	.....	.....	.....	....

20. In a shop, pencils are sold **only** in packs of 4. Each pack costs $0.55. Ahmad has $4.60. How many pencils can Ahmad buy at the most ?

21. 4 baskets contained 180 apples altogether. Each basket contained a different number of apples. The greatest number of apples in a basket was 60. What was the smallest possible number of apples in the basket ?

22. Simplify: $\dfrac{5}{6} \times 24$

5

23. In $\dfrac{3}{5} = \dfrac{6 + 9}{5 + \square}$, what is the missing number in the box ?

24. Find the value of $7 - \dfrac{5}{9}$.

25. Mr Muthu had 5 ℓ of milk. $\dfrac{3}{4}$ of it was poured out. How much milk was poured out ?

26. The figure not drawn to scale, shows a pole with 142 cm of its length buried in the ground. This leaves $\dfrac{5}{7}$ of its length above the ground. What is the length of the pole above the ground ?
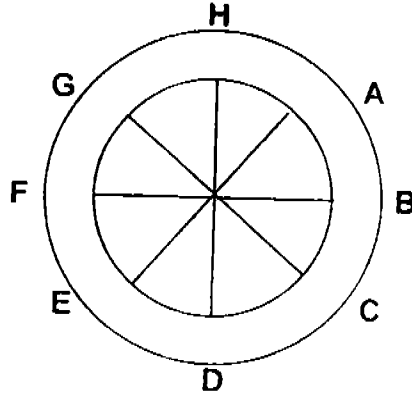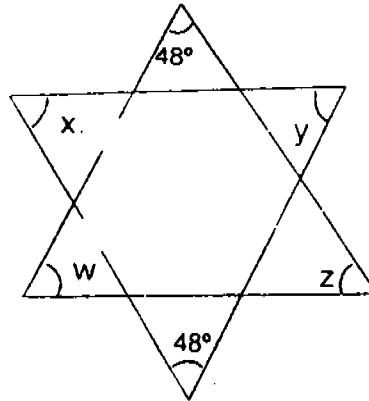
142 cm

27.

WAREHOUSE SALE
6 to 8 June 2004
Operating hours :   9.45 a.m. to 5.30 p.m.

For how long is the Warehouse Sale open each day ?

6

28. A to H show the 8 points of a compass. After turning clockwise through 225°, I end up facing H. Which letter was I facing at the beginning ?

29.

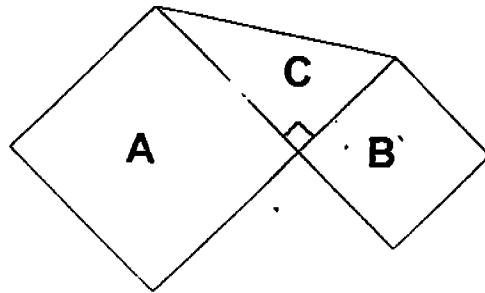In the above figure . not drawn to scale, find $\angle w + \angle x + \angle y + \angle z$.

30. Divide 302.1 by 5 (Give your answer as a decimal)

31. The weight of a parcel was recorded as 5.4 kg after rounding off to 1 decimal place. If it weighed less than 5.4 kg, write down a possible weight of the parcel.

32. $0.08 \ell = \boxed{} m\ell$

What is the missing number in the box ?

33. In the figure, A and B are squares and C is a right-angled triangle. The areas of A and B are 81 cm² and 49 cm² respectively. What is the area of triangle C ?

34. The ratio of Shirley's stickers to Yulin's stickers was 1 : 2 at first. After Shirley bought another 18 stickers, the ratio became 3 : 4. How many stickers did Yulin have ?

35. My heart beats 25 times in 20 seconds. At this rate, how many times does it beat in 1 minute ?

END OF BOOKLET A

8

Section C :   For questions 36 to 50, **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.

(55marks)

36.   John, Keith and Alan have a total of $98. Together John and Keith have $52 while Keith and Alan together have $75. How much money has Keith ?

Answer: _____ [2]

37.   Sally was given $\frac{1}{3}$ of a pie and Mary was given $\frac{1}{4}$ of what was left. The remainder was then shared equally among 6 boys. What fraction of the original pie did each boy get ?

Answer: _____ _____ [2]

9
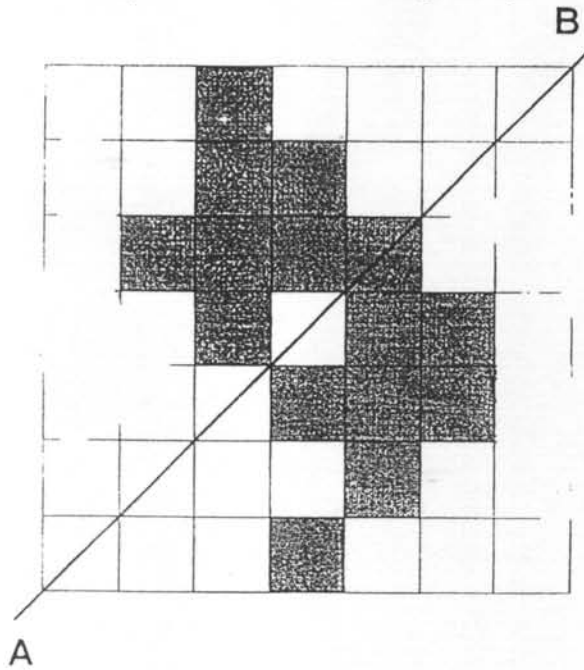
38. At a concert 70 tickets are each sold at the normal price and the remaining 40 tickets at half the normal price. If the total amount of money collected is $1080, what is the normal price of a ticket ?

Answer : _____

39. A box containing 9 identical books weighs 4.25kg. The same box containing 5 such books weighs 2.65kg. What is the weight of the box ?

Answer: _____ . ____[3]

10

40. Shade **2** more unit squares to make the figure symmetrical about the line AB.

[3]

41. At first Guojun had $96 and Meiting had $42. Each of them bought a watch at the same price. Guojun now has 4 times as much money left as Meiting. How much did the watch cost ?

Answer : _____ [3]

42. The total weight of 3 parcels A, B and C is 15 kg. A is 0.6 kg heavier than B and 0.15 kg heavier than C.

    a)   How much heavier is C than B ?

    b)   What is B's weight ?

Answer: a) _____ _____ [1]

b)_____ [3]

43. Susie spent $24 of her savings on a dress. She spent $\frac{1}{6}$ of the remainder on a purse. She still had half of her money left. What was her total savings at first ?

Answer: _____ [4]

12

44. Su Yi visited a farm where he saw some rabbits and chickens. There were 37 rabbits and chickens in all. He then counted the legs of the animals and found that there were 100 legs. How many animals of each type were there in the farm ?
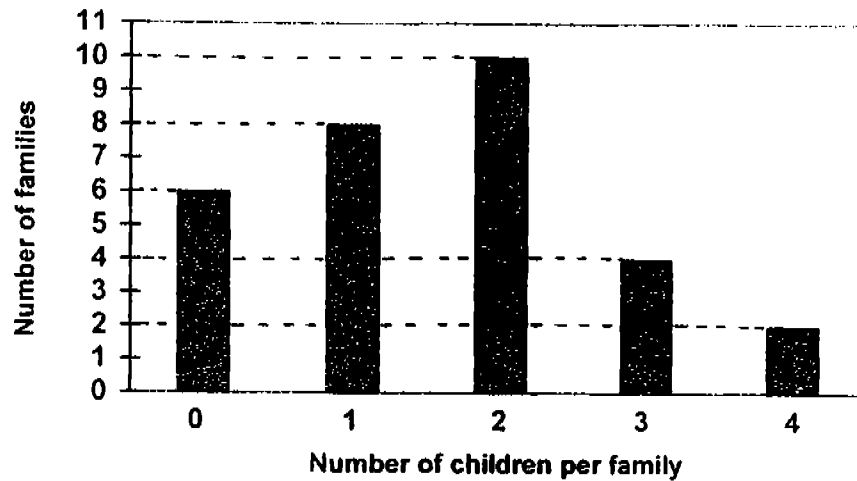
Answer : _____ [4]

45. Jeff , Peter and Sam shared some Pokemon cards in the ratio 9 : 8 : 11.

a) What fraction of the cards was Sam's share ?
b) In a game, Peter lost half of his cards to Jeff. Jeff then had 36 more cards than Peter. After the game, how many cards had Jeff ?

Answer : a)_____ [1]

b) _____ _____[3]

13

46.   The graph shows the number of children per family in a housing estate.
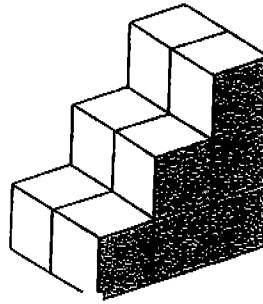

Number of children per family

(a)   What is the total number of children in the housing estate ?

Answer : _____ [2]

(b)   There are 30 families in the estate. What fraction of the families in the estate have fewer than 3 children ?
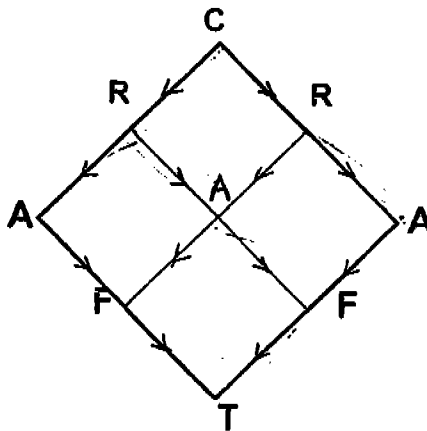
Answer : _____ [2]

14

47.   (a)   Mrs Kwok used 12 cubes to build this staircase with 3 steps. How many cubes will she need to make a 6-step staircase ?

Answer : a) _____ [2]

(b)   In how many ways can the word **CRAFT** be read from the top to bottom, following the arrows given in the diagram ?

Answer : b) _____ [2]

15

48.   Mrs Tay spent $206 on some pillows and mats. She bought 5 more
      pillows than mats. A pillow cost $16 and a mat cost $5.

      (a)   What was the cost of 5 pillows ?

      (b)   How many pillows did she buy ?

                                        Answer : a) _____ _ [1]

                                                b) _____ [4]

                                                                        16

49. Shane gave $\frac{4}{15}$ of his 255 stamps to Minah who had 60 stamps. After Mayer gave Minah $\frac{3}{7}$ of his, she had a total of 164 stamps. How many stamps had they altogether ?

Answer : _____ [5]

50.   The participants in the Mathematics Competition are P5 and P6 pupils in the
       ratio 2 : 1. All the P5 participants are girls. Among the P6 participants, the
       ratio of girls to boys is 3 : 4.

       (a)   What fraction of the participants are boys ?

       (b)   There are 33 more P5 girls than P6 girls taking part in the
               competition. How many participants in the competition are girls ?

Remember to check your work!
Every mark counts.

                                      Answer :a) _____ [2]

                                             b) _____ [3]
                    END OF BOOKLET B

MAHA BODHI SCHOOL
2004 SEMESTRAL ASSESSMENT 1
PRIMARY 5 MATHEMATICS

!) 4

2) 1

3) 1

4) 4

5) 3

6) 3

7) 1

8) 2

9) 4

10) 1

11) 3

12) 2

13) 2

14) 2

15) 3

16) 9046000

17) 70000

18) 3

19) 101

20) 32

21) 1

22) 20

23) 20

24) 6 4/9

25) 3 3/4

26) 355

27) 7 h 45 min

28) C

29) 264

30) 60.42

31) 5.39

32) 80

33) 31 1/2

34) 72

35) 75

36) $ 29

37) 1/12

38) $ 12

39) 0.65 kg

41) $ 24

42) a) 0.45 kg

    b) 4.65 kg

43) $ 60

44) 13 rabbits   24 chicken

45) a) 11/18   b) 52

46) a) 48

    b) 4/5

47) a) 42   b) 9

48) a) $ 80   b) 11 pillows

49) 399 stamps

50) a) 4/21   b) 51