



Maha Bodhi School
2006 Semestral Assessment 2
Mathematics

Name : _____ ()

Date : 25 October 2006

Class : Pr 3 _____

Duration : 1 h 45 min

BOOKLET A

Section A : (40 marks)

Questions 1 – 20 carry 2 marks each.

For each question, four options are given. One of them is the correct answer.

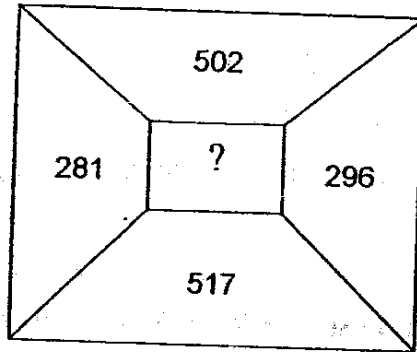
Make your choice (1, 2, 3 or 4) and shade the number in the corresponding oval on the OAS.

1. In 2658, the value of the digit 6 is _____.
 - (1) 5
 - (2) 60
 - (3) 600
 - (4) 6000

2. How many tens are there in the quotient $680 \div 4$?
 - (1) 17
 - (2) 27
 - (3) 170
 - (4) 270

3. A mini van can take up to 8 passengers.
What is the least number of mini vans needed for 258 passengers?
 - (1) 30
 - (2) 31
 - (3) 32
 - (4) 33

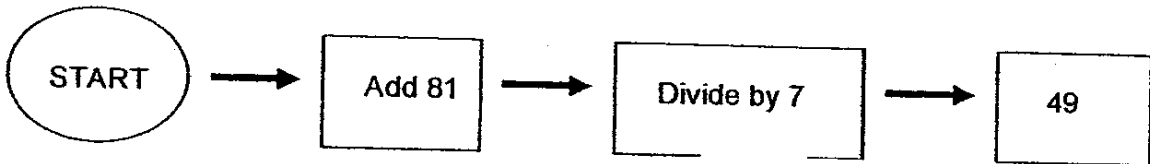
4.



Find the missing number in the box.

- (1) 15
- (2) 30
- (3) 150
- (4) 300

5. What is the missing number in the 'START' circle?



- (1) 74
- (2) 88
- (3) 262
- (4) 424

6.

$$\begin{aligned} \diamond + \diamond + \diamond + \diamond &= 128 \\ \heartsuit + \heartsuit + \heartsuit + \heartsuit + \heartsuit + \heartsuit &= 42 \end{aligned}$$

Find the difference between \diamond and \heartsuit .

- (1) 25
- (2) 86
- (3) 170
- (4) 260

7. Mrs Lee bought a chicken for \$3.80 and a duck for \$5.60. She had \$10.80 left. How much did she have at first?

- (1) \$9.40
- (2) \$14.60
- (3) \$19.20
- (4) \$20.20

8. One watch and 3 bags cost \$297. One watch and one bag cost \$137. If the watches and bags are all similar, find the cost of one bag.

- (1) \$40
- (2) \$80
- (3) \$160
- (4) \$434

9.



Sally's house



School



MRT Station



Community Club

1 km 570 m

2 km 450 m

?

The Community Club is 8 km 800 m from Sally's house.
Find the distance between the MRT station and the Community Club.

- (1) 4 km 20 m
- (2) 4 km 780 m
- (3) 7 km 230 m
- (4) 12 km 820 m

10. Mei Ling cut a piece of ribbon into 5 pieces. One piece was 20 cm long. Each of the remaining pieces was 26 cm long. How long was the ribbon at first?

- (1) 51 cm
- (2) 124 cm
- (3) 126 cm
- (4) 150 cm

11. Hazel bought a 2-kg chocolate cake. She cut it into 8 equal pieces. What was the mass of 3 pieces of the cake?

- (1) 250 g
- (2) 550 g
- (3) 750 g
- (4) 850 g

12. Mrs Wong is 4 times as heavy as her daughter. If Mrs Wong weighs 56 kg, find the mass of her daughter.

- (1) 10 kg
- (2) 13 kg
- (3) 14 kg
- (4) 52 kg

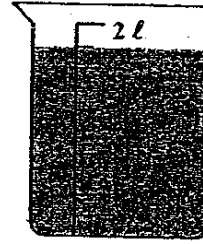
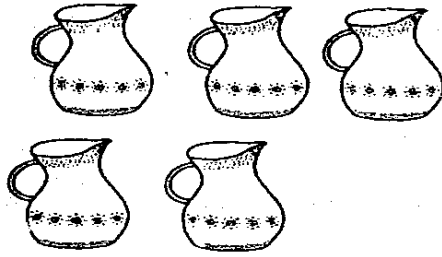
13.

Containers	Capacity
P	2050 ml
Q	1950 ml
R	2101 ml
S	2073 ml

The table shows the capacities of four containers. Which container has the greatest capacity?

- (1) P
- (2) Q
- (3) R
- (4) S

14. The water in Container Y can fill up 5 similar jugs.
What is the capacity of each jug?



Container Y

- (1) 60 ml
(2) 160 ml
(3) 260 ml
(4) 360 ml
15. What is $\frac{8}{12}$ in its simplest form?

- (1) $\frac{1}{3}$
(2) $\frac{2}{3}$
(3) $\frac{1}{6}$
(4) $\frac{4}{6}$

16. $x - \frac{3}{5} = \frac{\square}{10}$

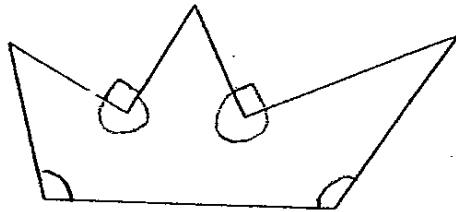
What is the missing number in the box?

- (1) 5
(2) 2
(3) 10
(4) 4
17. A clock is 45 minutes slower than the actual time. The clock is showing 11.20 p.m.
What is the actual time?
- (1) 10.35 p.m.
(2) 10.35 a.m.
(3) 12.05 p.m.
(4) 12.05 a.m.

18. The length of a rectangular pool is 3 times its width. If the perimeter of the pool is 144 m, find the length of the pool.

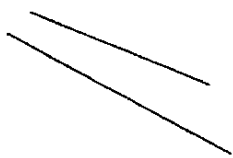
- (1) 18 m
- (2) 54 m
- (3) 141 m
- (4) 147m

19. How many angles inside the figure are greater than a right angle?



- (1) 8
- (2) 6
- (3) 3
- (4) 4

20. Which of the following pairs of lines are parallel?



A



B



C



D

- (1) A
- (2) B
- (3) C
- (4) D



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Mathematics

Name : _____ ()

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Parent's Signature : _____

Section A (40 marks)	
Section B (40 marks)	
Section C (20 marks)	
Total (100 marks)	

BOOKLET B

Section B: (40 marks)

Each question from 21 – 40 carries 2 marks each.

Write your answer in the **SPACES** provided.

Give your answers in the units stated.

21. Write 5 thousand, 6 tens and 4 ones in numerals.

Ans : _____

22. Charlene has 409 story books. She has 213 more story books than Jarran.
How many storybooks do they have altogether ?

Ans: _____ storybooks

23. $34 \times 19 = 19 \times 2 \times \square$

The missing number in the box is _____

Ans: _____

24. If 2 apples costs \$0.90, find the cost of 18 such apples.

Ans: \$ _____

25. Bryan has some ten-cent coins, twenty-cent coins and fifty-cent coins. He has \$2.20 altogether. If he has four twenty-cent coins, how many ten-cent and fifty-cent coins does he have ?

Ans: _____ ten-cent coins

Ans: _____ fifty-cent coins

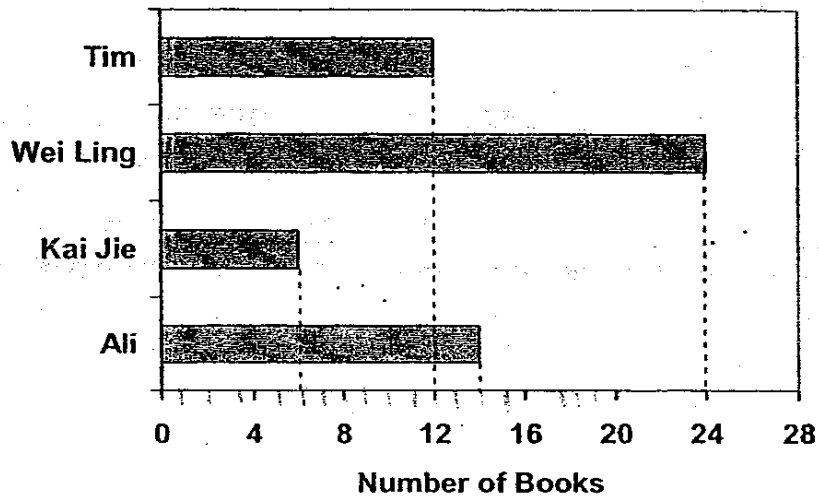
26. 2 mangoes cost as much as 3 oranges. If the total cost of 2 mangoes and 3 oranges is \$2, find the cost of 12 oranges.

Ans: \$ _____

27. 12 l 5 ml = _____ ml

Ans: _____ ml

Study the bar graph and answer Questions 28 and 29.
The bar graph below shows the number of books owned by four children.



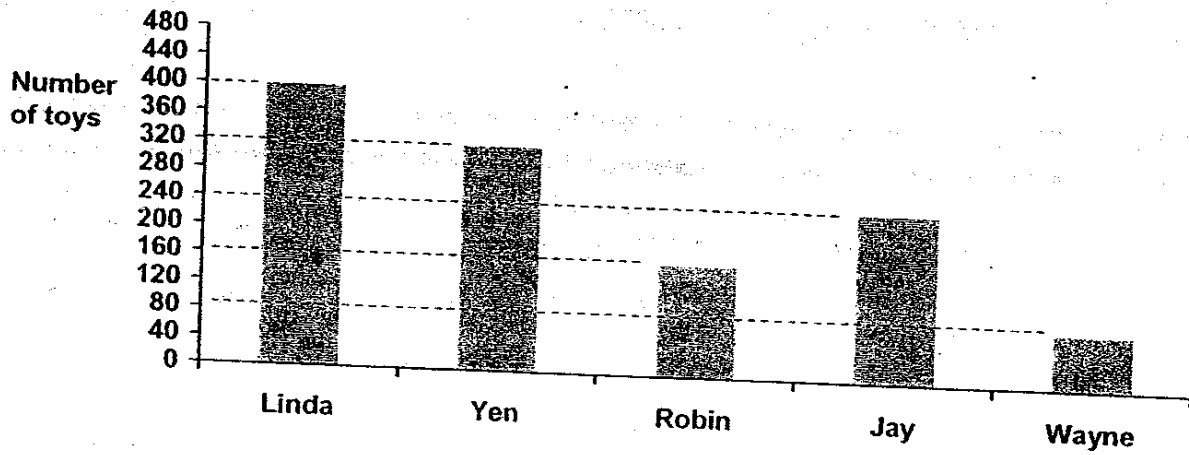
28. Who has twice as many books as Tim?

Ans: _____

29. How many books must Wei Ling give to Kai Jie so that they each have an equal number of books?

Ans: _____ books

Study the graph below and answer questions 30 and 31.
The graph below shows the number of toys five children have.



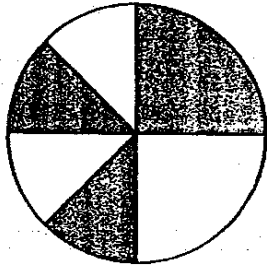
30. How many toys do Yen, Robin and Jay have altogether?

Ans: _____ toys

31. If Linda gives some toys to Wayne, they will both have an equal number of toys. Which one of the 5 children has the most number of toys after that?

Ans: _____

32. What fraction of the figure is shaded?



Ans: _____

33. $\frac{6}{10} = \frac{9}{\square}$

The missing number in the box is _____.

Ans: _____

34. Arrange the following fractions from the greatest to the smallest

$$\frac{5}{12}, \quad \frac{5}{6}, \quad \frac{5}{8}, \quad \frac{5}{10}$$

Ans: _____

35. A piano lesson started at 10.45 am and ended at 1.05 pm. How long was the piano lesson?

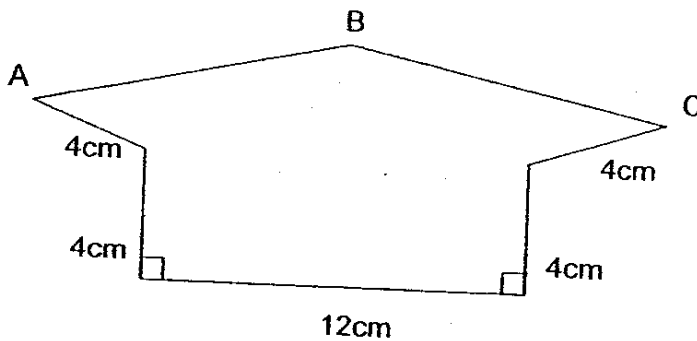
Ans: _____ h _____ min

45

36. Mrs Jacob starts work at 8.15 am and finishes at 6.00 pm daily. She stops work for 30 minutes to have her lunch in the afternoon. How long does she work daily?

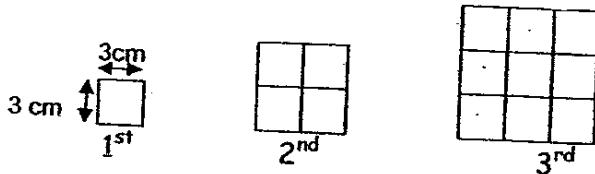
Ans: _____ h _____ min

37. If the perimeter of the figure below is 43 cm, find the length of ABC. (The figure shown below is not drawn to scale).



Ans: _____ cm

38. Casey builds some pattern structures using 3-cm squares as shown below. Find the area of the third structure.



Ans: _____ cm²

39. Draw a line perpendicular to line AB.



40. The total cost of a watch and a necklace is \$2487. If the watch costs \$968, find the cost of the necklace.

Ans: \$ _____

Section C: (20 marks)

For questions 41 to 45, write your answers in the spaces provided.

For each question, show your working clearly in the space below each question.

The number of marks for each question or part-question is shown in the brackets [].

Write a statement for each step.

41. Mrs Lee's monthly salary is \$ 6904. Every month, she saves half of it, donates \$1320 to charity and spends the rest. How much does she spend monthly?

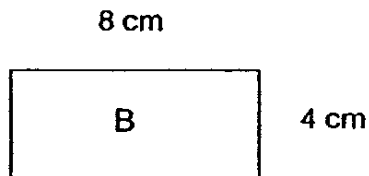
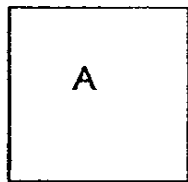
42. John bought 4 boxes of pears. Each box contained 136 pears. He kept 159 pears for himself and shared the rest equally among his 5 friends. How many pears did each of his friends receive?

Ans : _____ [4]

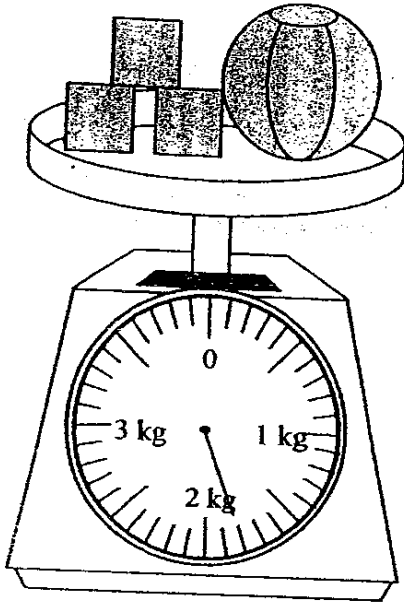
43. Xavier drinks 20 l more water than Wen Xuan. Charles drinks thrice as much water as Xavier. Altogether they drink 280 l of water.
How much water does Wen Xuan drink?

Ans : _____ [4]

44. The perimeter of square A is twice the perimeter of rectangle B.
What is the area of square A?



45. The diagram below shows the total mass of 3 similar boxes and a ball. Each small box has a mass of 225g. What is the mass of the ball?



Ans : _____ [4]

0



*Remember to check your work!
Every mark counts.*

--End of Paper --

50

Answer Sheets
Maha Bodhi Pri 3 SA2 / 2006 Maths

- 1) 3 2) 1 3) 4 4) 1 5) 3
6) 1 7) 4 8) 2 9) 2 10) 3
- 11) 3 12) 3 13) 3 14) 4 15) 2
16) 4 17) 3 18) 2 19) 4 20) 4
21. 5 thousand 6 tens and 4 ones = **5064**
 $5000 + 6 \times 10 + 4 \times 1 = 5000 + 60 + 4$
22. Charlene = 409 story books
Jarran = $409 - 213 = 196$ storybooks
409 + 196 = 605 storybooks altogether
23. $34 \times 19 = 19 \times 2 \times 17$
 $646 = 646$
24. 2 apples = \$0.90¢
1 apple = \$0.45¢
18 apples = 0.45×18
= \$8.10¢
25. Bryan = \$2.20
 $4 \times 0.20¢ = \$0.80¢$
 $2 \times 0.50¢ = \$1.00¢$
 $4 \times 0.10¢ = \$0.40¢$
26. 2 mangoes = 3 oranges
2 mangoes + 3 oranges = \$2.00
3 oranges + 3 oranges = \$2.00
1 oranges = \$0.30
12 oranges = 0.30×12
= **\$4.00**
27. $12\text{l } 5\text{ml} = 12005\text{ml}$
 $12\text{l} = 12000\text{ml}$
28. Wei Ling
29. Wei Ling = 24 books
Kai Jie = 6 books
 $24 - 6 = 18$
 $18 \div 2 = \mathbf{9 \text{ books}}$
30. Yen = 320
Robin = 160
Jay = 240
 $320 + 160 + 240 = \mathbf{720 \text{ toys}}$
31. Linda = 400
Wayne = 80
 $400 - 80 = 320$
 $320 \div 2 = 160$
Yen = 320 toys
Robin = 160 toys
Jay = 240 toys
Linda = 160 toys
Wayne = 160 toys
32. $\frac{4}{8} = \frac{1}{2}$

$$33. \quad \frac{6}{10} = \frac{54}{90}$$

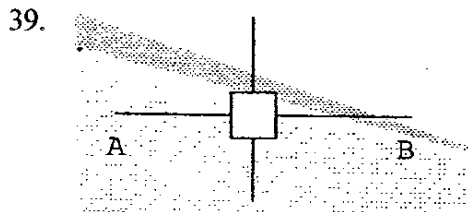
$$34. \quad \frac{5}{6}, \frac{5}{8}, \frac{5}{10}, \frac{5}{12}$$

$$35. \quad \begin{aligned} 1.05\text{pm} &= 1305\text{hours} \\ 10.45\text{am} - 11.45\text{am} &= 1 \text{ hour} \\ 11.45\text{am} - 12.45\text{pm} &= 1 \text{ hour} \\ 1305 - 1245 &= 20\text{mins} \\ (1 + 1 + 20) &= \underline{\mathbf{2 \text{ hours } 20 \text{ mins}}} \end{aligned}$$

$$36. \quad \begin{aligned} 6.00 \text{ pm} - 30 \text{ mins} &= 5.30\text{pm} \\ 0815\text{am to } 12.15\text{pm} &= 4 \text{ hours} \\ 5.30\text{pm} &= 1730\text{hours} \\ 12.15\text{pm} &= 1215\text{hours} \\ 1730 - 1215 &= 515 \text{ hours} \\ 4 \text{ hours} + 515 \text{ hours} &= 915\text{hours} \\ &= \underline{\mathbf{9 \text{ hours } 15 \text{ mins}}} \end{aligned}$$

$$37. \quad \begin{aligned} \text{Perimeter of figure} &= 43\text{cm} \\ 12 + 4 + 4 + 4 + 4 &= 28\text{cm} \\ 43\text{cm} - 28\text{cm} &= \underline{\mathbf{15\text{cm}}} \end{aligned}$$

$$38. \quad \begin{aligned} 3 \times 3 &= 9\text{cm} \\ 9 \times 9 &= \underline{\mathbf{81\text{cm}^2}} \end{aligned}$$



$$40. \quad \begin{aligned} \text{Watch} &= \$968.00 \\ \$2487 - \$986 &= \$1519.00 \\ \text{Necklace} &= \underline{\mathbf{\$1519.00}} \end{aligned}$$

$$41. \quad \begin{aligned} \text{Salary} &= \$6904.00 \\ \text{Saves} &= \$6904 \div 2 = \$3452.00 \end{aligned}$$

$$\begin{aligned} \text{Donates} &= \$1320.00 \\ \$(3452 - 1320) &= \$2132.00 \end{aligned}$$

She spends **\\$2132.00** monthly.

$$42. \quad \begin{aligned} 136 \times 4 &= 544 \text{ pears} \\ 544 - 159 &= 385 \text{ pears} \\ 385 \div 5 &= 77 \text{ pears} \end{aligned}$$

Each of his friends received **77 pears**.

$$\begin{aligned}
 43. \quad 280\ell + 20\ell &= 300\ell \\
 \text{Xavier} &= 1\text{unit} + 20\ell \\
 \text{Charles} &= 1\text{unit} + 3\text{units} \\
 (1 + 1 + 3) &= 5\text{units} \\
 5\text{units} &= 300\ell \\
 1\text{units} &= 60\ell \\
 60\ell - 20\ell &= 40\ell \\
 \text{Wen Xuan drink } &\underline{40\ell}
 \end{aligned}$$

$$\begin{aligned}
 44. \quad \text{Rectangle B} &= 8 + 4 + 8 + 4 = 24\text{cm} \\
 \text{Square A} &= 24 \times 2 = 48\text{cm}^2 \\
 &= 48\text{cm} \div 4 = 12\text{cm} \\
 \text{Area of square} &= 12 \times 12 \\
 &= \underline{144\text{cm}^2}
 \end{aligned}$$

$$\begin{aligned}
 45. \quad 1\text{ box} &= 225\text{g} \\
 3\text{ boxes} &= 225 \times 3 \\
 &= 675\text{g}
 \end{aligned}$$

$$\begin{aligned}
 \text{Total mass} &= 1.8\text{kg} (1800\text{g}) \\
 &= 1800\text{g} - 675\text{g} \\
 &= 1125\text{g}
 \end{aligned}$$

The mass of the ball 1 kg 125g