

Maha Bodhi School
2008 Continual Assessment 1
Mathematics



Name : _____ ()

Date : 27 February 2008

Class : Pr 6 _____

Duration : 2 h 15 min

BOOKLET A

Section A (20 marks)

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 oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. Round off 626 508 to the nearest ten thousands .

- (1) 620 000
- (2) 626 000
- (3) 627 000
- (4) 630 000

2. 52 tens and 64 hundredths written as a decimal is _____.

- (1) 52.64
- (2) 520.64
- (3) 526.40
- (4) 520.64
- 520.064

3. $7\frac{3}{5}$ is the same as _____.

- (1) $\frac{26}{3}$
- (2) $\frac{38}{3}$
- (3) $\frac{26}{5}$
- (4) $\frac{38}{5}$

4. If a $2\frac{1}{4}$ hour movie starts at 10.50 a.m., it should end at _____

- (1) 1.05 p.m.
- (2) 1.05 a.m.
- (3) 1.15 a.m.
- (4) 1.15 p.m.

5. Azman has four 20-cent coins and two 50-cent coins. He puts some coins into a donation box. Which one of the following is a possible amount he donated?

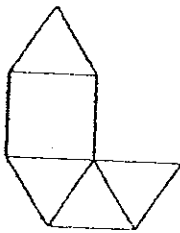
- (1) \$1.70
- (2) \$1.50
- (3) \$0.90
- (4) \$0.50

6. The mass of Kelly's suitcase is 12.9 kg. The mass of Devi's suitcase is 550 g more. The mass of Devi's suitcase is _____ kg.

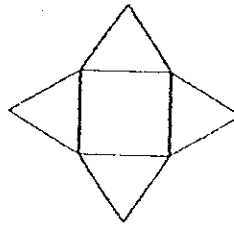
- (1) 7.4
- (2) 12.35
- (3) 13.45
- (4) 18.40

7. Which one of the following is not a net of a pyramid?

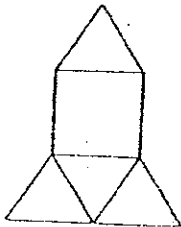
(1)



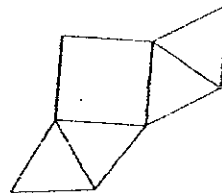
(2)



(3)



(4)



8. A packet of 120 sweets was shared among Aaron, Ben and Carl in the ratio of 3 : 5 : 2 respectively. How many sweets did Ben get?

- (1) 12
- (2) 24
- (3) 40
- (4) 60

9. Mr Lim had \$y. He gave \$400 to his wife and shared the remainder equally among his two sons and himself. How much did each son get?

- (1) $\$ \left(\frac{400-y}{2} \right)$
- (2) $\$ \left(\frac{400-y}{3} \right)$
- (3) $\$ \left(\frac{y-400}{2} \right)$
- (4) $\$ \left(\frac{y-400}{3} \right)$

10. Oranges are sold at 5 for \$2.75. How much do 15 oranges cost?

- (1) \$ 0.55
- (2) \$ 5.50
- (3) \$ 8.25
- (4) \$ 11.00

11. The perimeter of a rectangle is 96 cm. The ratio of its length to its breadth is 5:3. Find the length of the rectangle.

- (1) 12 cm
- (2) 30 cm
- (3) 36 cm
- (4) 60 cm

12. Harry ate w cookies. Mary ate 6 times as many cookies as Harry. Nana ate 5 more cookies than Mary. How many cookies did the three of them eat altogether?

- (1) $13w + 5$
- (2) $7w + 5$
- (3) $6w + 5$
- (4) $w + 11$

13. Mary bought a bag of oranges. She kept $\frac{1}{3}$ of the oranges for herself. She gave the rest to 4 friends. Each friend got 3 oranges. How many oranges did she buy?

- (1) 12
- (2) 15
- (3) 18
- (4) 36

14. 1, 3, 5, 7, 9, 11 are a series of odd numbers.

The sum of the first 2 odd numbers is 4.

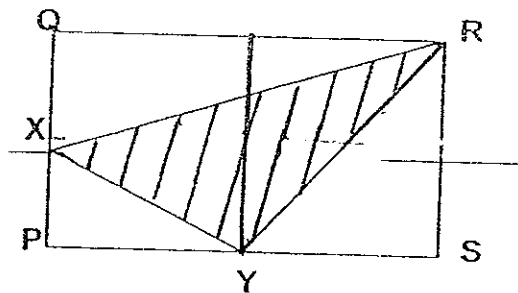
The sum of the first 3 odd numbers is 9.

The sum of the first 4 odd numbers is 16 and so on.

What will be the sum of the first 50 odd numbers?

- (1) 2000
- (2) 2500
- (3) 5000
- (4) 5500

15. In the figure, PQRS is a rectangle. X and Y are the mid-points of PQ and PS respectively. What fraction of the figure is shaded?



- (1) $\frac{1}{4}$
- (2) $\frac{3}{8}$
- (3) $\frac{1}{3}$
- (4) $\frac{1}{2}$



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Section A (20 marks)	
Section B (30 marks)	
Section C (50 marks)	
Total (100 marks)	

BOOKLET B

Section B (30 marks)

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. Use all the digits 4, 3, 0, 9 to form the smallest four-digit even number that is divisible by 5.

Ans : _____

17. Find the missing number in the box.

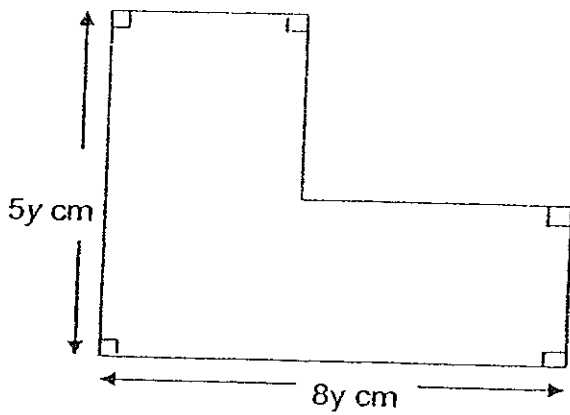
$$\frac{5}{8} = \frac{5}{\boxed{}} \div 4$$

Ans : _____

18. The average cost of a watch and a handbag is \$180. The watch costs \$60 more than the handbag. What is the cost of the handbag?

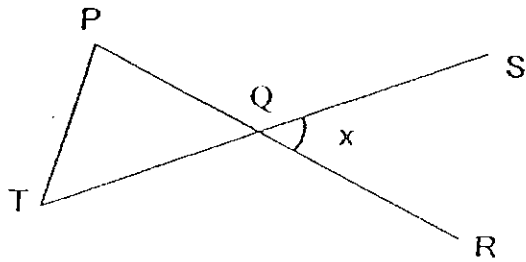
Ans : \$ _____

19. Study the figure below. What is the perimeter of the figure?



Ans : _____ cm

20. In the figure not drawn to scale, PQR and TQS are straight lines and PQT is an equilateral triangle. Find $\angle x$.



Ans : _____ °

21. Siti's height is $\frac{7}{5}$ of Maria's height. What is the ratio of Maria's height to their total height?

Ans : _____

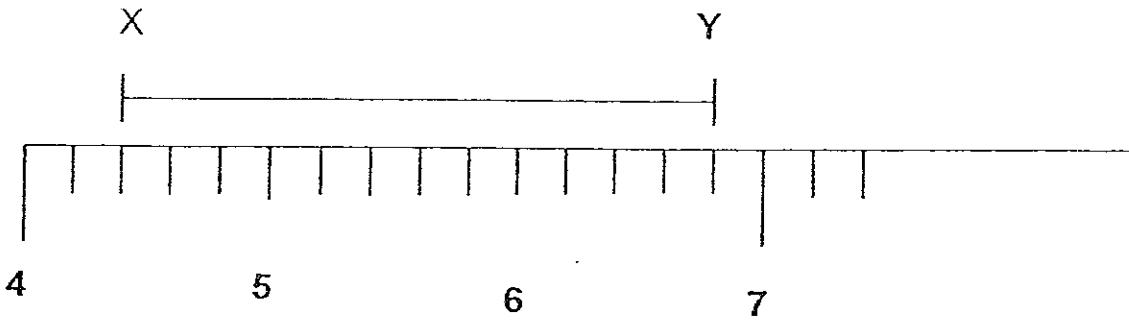
22. $4\frac{1}{6} - \square = 1\frac{2}{3}$

Ans : _____

23. A machine can make 640 dumplings in 8 minutes. At this rate, how many dumplings can the machine make in an hour?

Ans : _____ dumplings

24. The figure below shows part of a scale. What is the length of the line XY?



Ans : _____ Cm

25. Express 2 kg as a percentage of 800g.

Ans : _____ %

Questions 26 to 35 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. (20 marks)

26. Find the value of $10 + (14 - 4) \times 32 \div 8 + 6$

Ans : _____

27. $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 = 55$

$11 + 12 + 13 + 14 + 15 + 16 + 17 + 18 + 19 + 20 =$

What is the missing number in the box?

Ans : _____

28. $\frac{3}{5}$ of the pupils in the class are boys. If $\frac{1}{3}$ of the boys and $\frac{1}{2}$ of the girls wear spectacles, what fraction of the pupils in the class wear spectacles? Leave your answer in the simplest form.

Ans : _____

29. Given that
 $1234 \times 56 = 69\ 104$
 Then, write down the value of
 $1.234 \times 560 =$ _____

Ans : _____

30. Apples are sold at the following prices:

Number of apples	Price
1	\$ 0.65
5	\$3

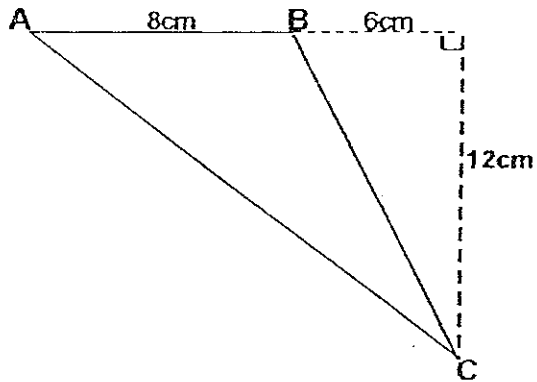
What is the least amount Mrs Ng has to spend for 32 apples ?

Ans : \$ _____

31. A sheet of cardboard is 0.16 cm thick. What is the thickness of a pile of 1 000 such sheets of cardboard ?

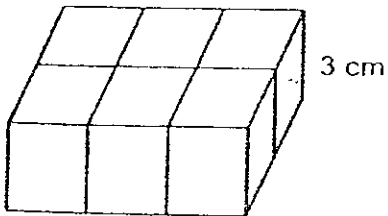
Ans : _____ m

32. Find the area of Triangle ABC.



Ans : _____ cm²

33. Lily made the cuboid shown using cubes of sides 3 cm. She painted the whole cuboid red. What was the total surface area of the cuboid that was painted red?



Ans : _____ cm²

34. Peter and Paul shared some cards in the ratio 3 : 4. If Paul gives Peter 10 cards, they will have the same number of cards. How many cards are there altogether?

Ans : _____

5. The following table shows the number of 10¢ coins and 50¢ coins Peter has in his coin box.

Type of coins	Number of coins
10¢	56
20¢	?
50¢	34
\$1	?

30% of the total number of coins is made up of 10¢ and 50¢ coins. The value of the 20¢ coins and the \$1 coins in his box is equal. How many \$1 coins are there in his coin box?

Ans : _____ coins

Section C (50 marks)

For questions 36 to 48, show your working clearly in the space provided for 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.

36. Marcy has more than 50 but fewer than 110 sweets. If she gives 5 sweets to each friend, she will have 17 sweets left. If she gives 6 sweets to each friend, she will have none left. How many sweets does she have altogether ?

Ans : _____ [3]

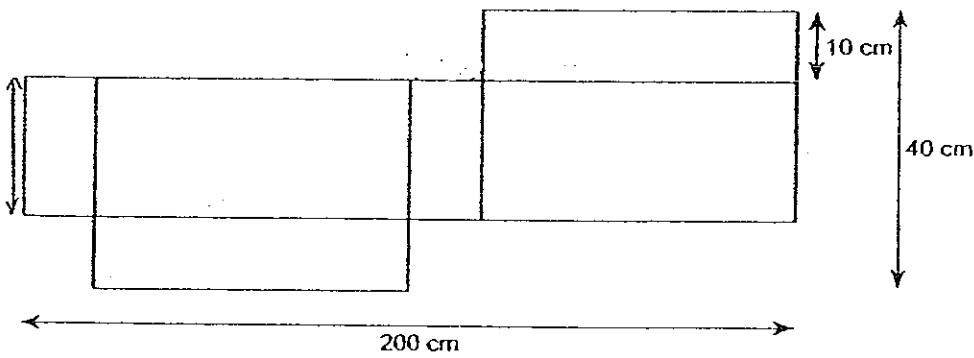
37. At a Mathematics competition , there were 84 winners. $\frac{1}{2}$ of them won either gold or silver medals. $\frac{5}{6}$ of them won either silver or bronze medals. How many of them won silver medals ?

Ans : _____ [3]

30. Each pen costs \$1.50 more than each eraser. Each file cost \$2.40 more than each pen. Hassan bought 2 of each item and paid \$14.40. How much did he pay for each file ?

Ans : _____ [3]

31. The figure shows the net of a cuboid.



Find the volume of the cuboid.

Ans : _____ [3]

40a) The sum of three numbers is $9m$. One of the numbers is m and the other number is 4. Express the third number in terms of m .

Ans : _____ [2]

b) If $m = 3$, find the value of the third number.

Ans : _____ [1]

41. Freddy took out 0.3 of his money from his savings box. He spent 0.75 of it and had \$48 left. He put the money back into the savings box. His grandmother then gave him \$31 to put into his savings box. How much money was there in his savings box finally?

Ans : _____ [4]

42. Ah Seng and Rajoo shared a box of sugar equally. Ah Seng packed his share of sugar into 6 bags of equal mass. Rajoo packed his share of sugar into 8 bags of equal mass. 3 bags of Ah Seng's sugar and 2 bags of Rajoo's together weighed 36 kg. What was the mass of the sugar in the box at first?

Ans : _____ ~~[4]~~ [3]

43. The table shows the rate of renting a bicycle at Pasir Ris Park.

First hour	\$3
Every additional hour or part thereof	\$2

- a) Tom and his friends hired 3 bicycles for 4 hours. How much did they pay?
b) Jeremy hired 2 bicycles from 9.30a.m. to 11.40a.m. How much did he have to pay?

Ans : a) _____ [2]

b) _____ [2]

44. There were twice as many flowers in Box A than in Box B. The ratio of the number of lilies to the number of roses in Box A is 3 : 2. The ratio of the number of lilies to the number of roses in Box B is 2 : 3. When 6 roses were transferred from Box B to Box A, the ratio of the number of lilies to the number of roses in Box B became 3 : 4.
- a) How many flowers were there in Box A after the transfer?
b) What was the ratio of the number of lilies to roses in Box A after the transfer?

Ans : a) _____ [3]

b) _____ [2]

45. Derek, Javier and Alex shared a cash prize of \$1 800. Derek received 25% of the prize while Javier received 20% less than what Derek got.
- (a) How much money did Alex receive?
 - (b) If Alex spent 30% of his share on an iPod, how much money had he left?

Ans : a) _____ [3]
b) _____ [1]

46. During a sale, a departmental store offered a storewide discount of a certain fixed percentage. Mr Ishak paid \$36 for a shirt during the sale and saved \$9.
- (a) What was the percentage discount?
 - (b) How much did Mr Ishak save in all if he paid a total of \$96 for all his purchases during the sale?

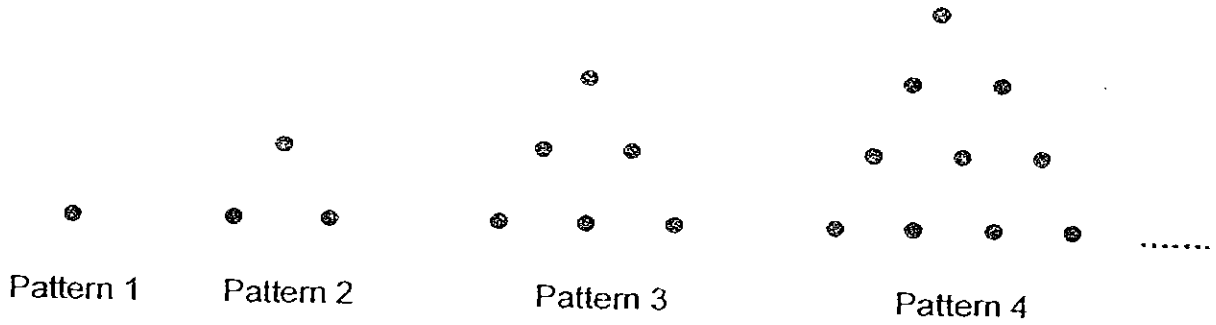
Ans : a) _____ [3]

b) _____ [2]

47. A promoter sold a total of \$1 140 worth of pots and pans in a week. The ratio of the cost of a pan to that of a pot is 1 : 3. The pot cost, \$45 and the promoter sold 12 more pans than pots. How many pans did he sell in the week?

Ans : _____ [5]

48. Study the pattern carefully and answer questions (a), (b) and (c).



Pattern	1	2	3	4
Number of dots	1	3	6	10

- How many dots will Pattern 7 have?
- Which pattern will have 120 dots?
- How many dots will Pattern 100 have?

Ans : a) _____ [1]

b) _____ [2]

c) _____ [2]

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



--End of Paper --

ANSWER SHEET

EXAM PAPER 2008

SCHOOL : MAHA BODHI PRIMARY SCHOOL
SUBJECT : PRIMARY 6 MATHEMATICS

TERM : CA 1

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

16) 3490

17) 2

18) \$150

19) 26y cm

20) 60°

21) 5:12

22) 2 1/2

23) 4800

24) 2.4cm

25) 250%

26) 56

27) 155

28) 2/5

29) 691.04

30) \$19.30

31) 1.6m

32) 48cm²

33) 198cm²

34) 140cards

35) 35

36) No. of friends Marcy has = $17 \div (6-5) = 17$ friends.

No. of sweets she has altogether = $17 \times 6 = 102$ sweets.

37) $84 \div 2 = 42$

42 of them won either gold or silver medals.

$\frac{84}{6} \times 5 = 70$

6

70 of them won either bronze or silver medals.

14 of them won gold medals

$42 - 14 = 28$

28 of them won silver medals.

38) Cost of an eraser = $\$7.20 - \$1.50 - \$1.50 - \$2.40 = \$0.60$
Cost of each file = $\$0.60 + \$2.40 + \$1.50 = \4.50

39) Breadth of cuboid = $40\text{cm} - 10\text{cm} - 10\text{cm} = 20\text{cm}$
Length of cuboid = 10cm
Height of cuboid = $200\text{cm} - 10\text{cm} - 10\text{cm} \div 2 = 90\text{cm}$
Volume of the cuboid = $10\text{cm} \times 20\text{cm} \times 90\text{cm} = 18000\text{cm}^3$

40) a) Third no. in terms of $m = 9m - m - 4 = 8m - 4$
b) Value of third no = $(8 \times 3) - 4 = 20$

41) $0.3 \rightarrow \$48 \times 4 = \192
Amt. Freddy had in his savings box at first = $\frac{\$192 \times 10}{3} = \640

Amt. in his savings box finally
= $[\$640 - (\$48 \times 3)] + \$31 = \527

42) $\frac{3}{4}$ of total mass of sugar $\rightarrow 36\text{kg} \times 2 = 72\text{kg}$
 $\frac{1}{4}$ of total mass of sugar $\rightarrow 72\text{kg} \div 3 = 24\text{kg}$
Total mass of sugar in the box at first = $24\text{kg} \times 4 = 96\text{kg}$

43) a) Amt paid for 1 bicycle in 4h = $\$3 + \$2 + \$2 + \$2 = \$9$
Amt paid for 3 bicycles in 4h = $\$9 \times 3 = \27

b) Amt. Jeremy had to pay = $(\$3 + \$2 + \$2) \times 2 = \14

44)a) Before

Box B

Lilies : Roses

2 : 3

= 6 : 9

After

Box A

Lilies : Roses

= 6 : 9

= 3 : 4

= 6 : 8

1 unit = 6

No. of flowers in Box B after the transfer

$$= 6 \times (6 + 8) = 84$$

No. of flowers in Box A after the transfer

$$= (84 + 6) \times 2 + 6 = 186 \text{ flowers.}$$

b) No. of roses in Box A at first = $\frac{186 - 6 \times 2}{5} = 72$

No. of lilies in Box B at first

$$= 180 - 172 = 108$$

Ratio at the number of lilies to roses in Box A after the transfer

$$= 108 : 72$$

$$108 : 72$$

$$18 : 12$$

45)a) $25 \times \$1800 = \450

100

Derek received \$450

$$80 \times \$450 = \$360$$

100

Javier received = \$360

$$\text{Amt. Alex received} = \$1800 - \$360 - \$450 = \$990$$

b) Amt. Alex had left

$$= \frac{70}{100} \times \$990 = \$693$$

100

$$46)a) \frac{9}{36+9} \times \frac{100\%}{1}$$

$$= \frac{9}{45} \times \frac{100\%}{1}$$

$$= 20\%$$

The percentage discount was 20%

$$b) 100 - 20 = 80$$

$$80\% \rightarrow \$96$$

$$1\% \rightarrow \frac{\$96}{80}$$

$$20\% \rightarrow \frac{\$96}{80} \times 20 = \$24$$

He saved \$24 in all.

$$47) \text{Cost of a pan} = \$45 \div 3 = \$15$$

$$\text{No. of pots he sold in the week} = \frac{\$1140 - \$15 \times 12}{\$15 + \$45}$$

$$= 16$$

$$\text{No. of pan he sold in the week} = 16 + 12 = 28$$

48)a) Pattern 7 will have 28 dots.

b) Pattern 15 will have 120 dots.

c) Pattern 100 will have 5050 dots.

---end---