SA1

Methodist Girls' School (Primary)

Semestral Assessment 1 (2004)

Primary 4

MATHEMATICS

Name : _____ _____ ( )

Class : Pri. 4. _____

Total Marks :

Section A (40 m)	
Section B + C (60 m)	
TOTAL	

Section A (40 marks)
For each question, four options are given. One of them is the correct answer. Mark your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. _____ is 25 000 when rounded off to the nearest hundred.

   (1) 24 899
   (2) 24 949
   (3) 24 957
   (4) 25 073

2. Which one of the following is <u>not</u> a factor of 40?

   (1) 5
   (2) 10
   (3) 15
   (4) 20

3. Express $6\frac{3}{5}$ as an improper fraction.

   (1) $\frac{14}{5}$
   (2) $\frac{30}{5}$
   (3) $\frac{33}{5}$
   (4) $\frac{90}{5}$

...Go to page 2

4. Subtract $1\frac{4}{7}$ from $4\frac{2}{7}$.

(1) $2\frac{2}{7}$

(2) $2\frac{5}{7}$

(3) $3\frac{2}{7}$

(4) $3\frac{5}{7}$

5. $\frac{21}{6}$ is equal to 2 + _____.

(1) $1\frac{1}{2}$

(2) $1\frac{1}{3}$

(3) $3\frac{1}{2}$

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

6. The sum of 32 277 and 43 688 when rounded off to the nearest ten is _____.

(1) 75 960
(2) 75 965
(3) 75 970
(4) 76 000

...Go to page 3

7. Jane had some buttons. The number of buttons she had can be divided exactly into either groups of 6 or groups of 7. Which of the following could be the number of buttons?

(1) 49

(2) 76

(3) 84

(4) 91

There are 6 classes in the Primary 4 level. The table below shows the number of pupils in each of these 6 classes. Use the data in this table to answer questions 8 and 9.

	P4.1	P4.2	P4.3	P4.4	P4.5	P4.6
Girls	16	25	16	13	18	20
Boys	23	15	23	28	19	18

8. How many fewer girls than boys are there in the 6 classes?

(1) 15

(2) 16

(3) 17

(4) 18

9. All the pupils went on an excursion to the Singapore Bird Park in 6 buses. There was an equal number of children in each bus. There was also a teacher in each bus. How many people were there in each bus?

(1) 39

(2) 40

(3) 41

(4) 42

...Go to page 4

16

10. What is the product of 27 and 385?

(1) 10 380
(2) 10 385
(3) 10 390
(4) 10 395

11. There are 801 coloured balloons in the school hall.
$\frac{4}{9}$ of the total number of balloons are blue and the rest are red.
How many **more** red balloons than blue balloons are there in the school hall?

(1) 89
(2) 267
(3) 356
(4) 445

12. $\square \times \frac{3}{7} = 21$. What is the missing number in the box?

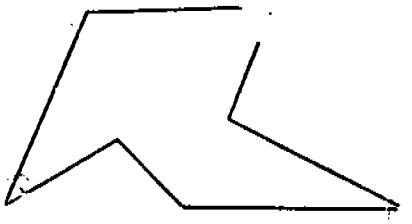
(1) 7
(2) 9
(3) 21
(4) 49

13. How many eighths are there in $2\frac{1}{2}$?

(1) 8
(2) 12
(3) 16
(4) 20

...Go to page 5

14.



In the given figure, how many angles are less than 90°?

(1) 1

(2) 2

(3) 3

(4) 4

15. In the sum below, the same number is missing from each box. What is the number?

$$\begin{array}{rcccc} & 6 & 8 & \square & 6 \\ & 5 & 4 & 7 & 9 \\ + & & 7 & \square & 8 \\ \hline & 13 & 0 & 3 & 3 \end{array}$$

(1) 1

(2) 2

(3) 3

(4) 4

16. Find the sum of all the factors of 25.

(1) 26

(2) 31

(3) 35

(4) 36

...Go to page 6

17. Michelle had 2 020 notebooks. She tied them in bundles of 20. How many bundles did she get?

(1) 100

(2) 101

(3) 110

(4) 111

18. $\frac{3}{5} = \frac{3 + \square}{5 + 10}$

What is the missing number in the box?

(1) 6

(2) 9

(3) 3

(4) 10

19. A jug can hold $1\frac{1}{2}\ \ell$ of water. A pail can hold $5\frac{1}{4}\ \ell$ more water. Find the total capacity of both containers.

(1) $6\frac{3}{4}\ \ell$

(2) $8\frac{1}{4}\ \ell$

(3) $10\ \ell$

(4) $14\frac{1}{4}\ \ell$

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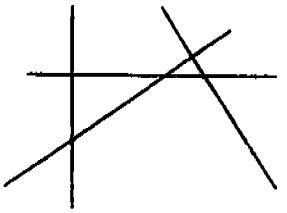
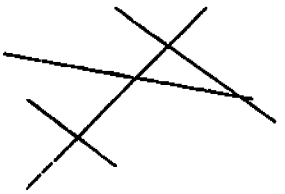
20. Which one of the following figures has parallel and perpendicular lines?

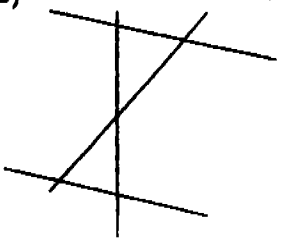
(1)



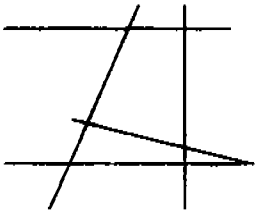
(2)



(3)



(4)



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20

Section B (40 marks)
Work out the sums and write the correct answers in the blanks provided.

21. List the factors of 93.

22. A confectioner made 9 trays of cookies. There were 13 pieces of cookies on each tray. She sold 39 pieces. What fraction of the total number of cookies was **sold**? (Express your answer in the simplest form.)

23. Arrange the fractions in decreasing order, from the largest to the smallest.

$\frac{1}{4}$, $\frac{5}{8}$, $\frac{1}{2}$, $\frac{11}{16}$

Go to page 9

24. Find the difference between 75 386 and 9 842.

What is the value of the digit in the thousands place?

_____

25. How many multiples of 9 are there between 19 and 91?

_____

26. A soccer team won 4 times as many games as it lost.

How many games did the team **play** if it lost 6 games?

_____

27. A box weighs $\frac{2}{9}$ kg. What is the total weight of 18 such boxes?

(Express your answer in kilograms.)

_____ kg

...Go to page 10

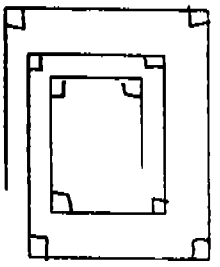
28. Kevin started his computer class at 3.15 pm. It lasted $2\frac{1}{2}$ hours. At what time did his class end?

____ : ____ pm

29. There are 156 caps in a box. $\frac{1}{6}$ of them are green, 47 of them are red and the rest are white. How many **white** caps are there?

_____

30. How many right angles are there in the figure below?

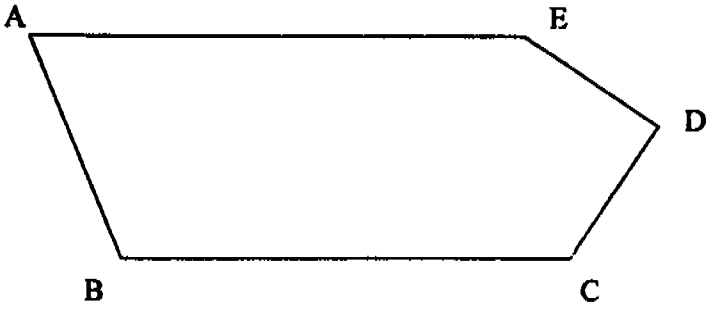


_____

...Go to page 11

2-3

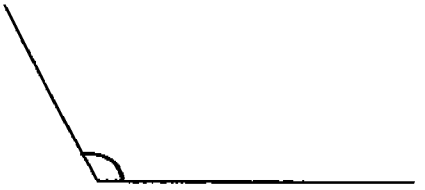
31. Name the right angle in the figure below.



∠ _____

32. Draw a perpendicular line to AB through Q.

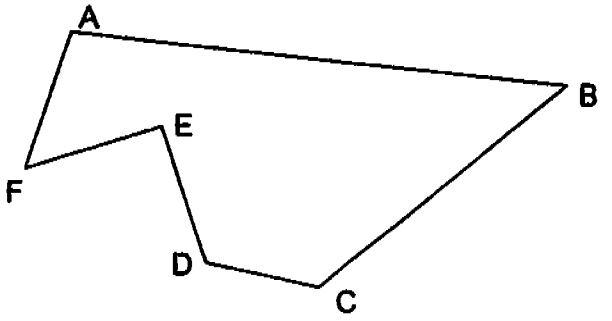
33. Measure the following angle.



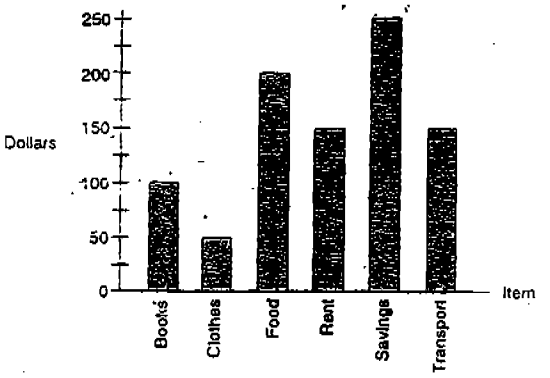
_____ °

...Go to page 12

34. Name a pair of perpendicular lines.



The graph below shows what Mr Tan does with his monthly salary. Study it carefully and answer questions 35 and 36



35. How many months must Mr Tan save in order to have a savings of $3 000?

36. If Mr Tan gives one-quarter of his total savings at the end of the year to his mother, how much does his mother receive?

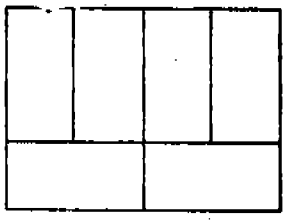
$_____

Go to page 13

37. The perimeter of a rectangular pool is 96 m. The length is 34 m.
What is the area of the pool?

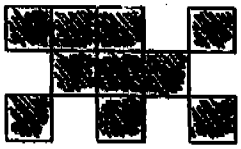
_____ m^2

38. The figure is made up of 6 identical rectangles. The total area is 108 m^2.
The breadth of each rectangle is 3 m. Find the perimeter of the figure.



_____ m

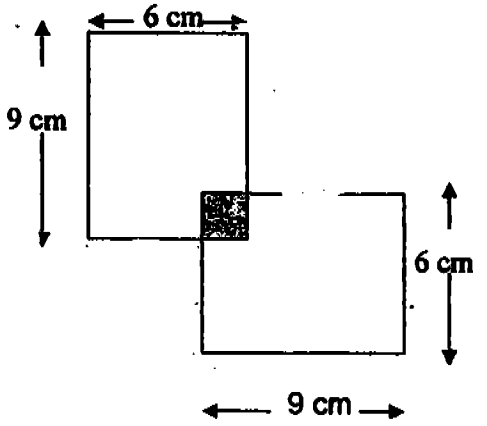
39. The figure is made up of 3-cm squares. Find its area.



_____ cm^2

...Go to page 14

40. The figure is made up of 2 identical rectangles. The length of the rectangle is 9 cm and the breadth is 6 cm. The rectangles overlap and form a small square of side 2 cm. Find the perimeter of the figure.



_____ _____cm

...Go to page 15

27

Section C (20 marks)
Solve the following problems. All workings and statements must be shown clearly.

41. Meilin had 140 picture cards more than Ali. After Meilin threw away 40 picture cards, she had twice as many picture cards as Ali. How many picture cards did they have altogether?

Ans: ____

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42. $938 was shared among 8 boys and 6 girls. Each girl received $47. The rest of the money was shared equally among the boys. How much did each boy receive? Round off the answer to the nearest $10.

Ans: _____

... Go to page 16

43. Mr Lee gave $\frac{3}{8}$ of his money to his mother and $\frac{1}{4}$ of his money to his father.

If his father received $500, how much did his mother receive?

Ans: _____

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44. The figure shows a rectangle of breadth 8 cm and a square of side 6 cm.
The area of the shaded part is 76 cm^2.

a) Find the area of the rectangle.

b) Find the perimeter of the rectangle.

Ans : a)_____

b)_____

Go to page 17

45. The breadth of a rectangular field is 8 m. Its length is three times its breadth. Three-quarters of the field is cemented. What area of the field is cemented?

Ans: _____

END OF PAPER

30

SA1

METHODIST GIRLS SCHOOL (PRIMARY)
SEMESTRAL ASSESSMENT 1, 2004
PRIMARY 4 MATHEMATICS

1) 3

2) 3

3) 3

4) 2

5) 1

6) 3

7) 3

8) 4

9) 2

10) 4

11) 1

12) 4

13) 4

14) 3

15) 2

16) 2

17) 2

18) 1

19) 2

20) 4

21) 1, 3, 31, 93

22) 1/3

23) 11/16, 5/8, 1/2, 1/4

24) 5000

25) 8

26) 30

27) 4

28) 5.45

29) 83

30) 10

31) Angle CDE

32)

33) 118^{o}

34) EF⊥ ED

35) 12 months

36) $ 750

37) 476

38) 42

39) 90

40) 52

41) 300 cards

42) $ 80

43) $ 750

44) a) 112 cm^2

b) 44 cm

45) 144 m^2