

# METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



## MID-YEAR EXAMINATION 2011 PRIMARY 4 MATHEMATICS

### BOOKLET A

Total Time for Booklets A and B: 1 h 45 min

#### INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

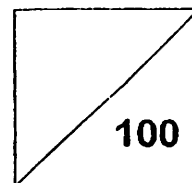
Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

Name: \_\_\_\_\_ ( )

Class: Primary 4. \_\_\_\_\_

Date: 5 May 2011



This booklet consists of 8 printed pages including this page.

Questions 1 to 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). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (40 marks)

1 The number of people who took part in a singing competition was 263 849. What is this number when rounded to the nearest hundred?

- (1) 263 000
- (2) ~~263 800~~
- (3) 264 000
- (4) 264 800

2 50 thousands and 3 tens is the same as \_\_\_\_\_

- (1) 5 030
- (2) 5 300
- (3) 50 030
- (4) 50 300

3 Which of the following numbers is a multiple of 6?

- (1) 16
- (2) 26
- (3) 36
- (4) 46

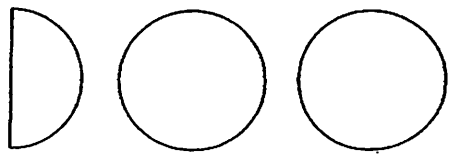
4 Which of the following can be divided by 8?

- (1) 184
- (2) 246
- (3) 358
- (4) 404

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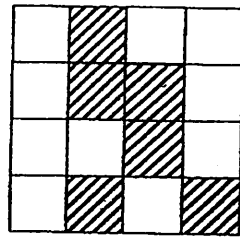
3



5 How many one-sixths are there?

- (1) 12
- (2) 13
- (3) 14
- (4) 15

6 What fraction of the figure is shaded?



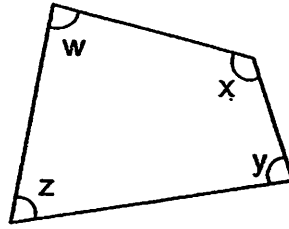
- (1)  $\frac{3}{1}$
- (2)  $\frac{1}{2}$
- (3)  $\frac{8}{3}$
- (4)  $\frac{5}{8}$

7  $\frac{3}{5} + \frac{1}{10} = \underline{\hspace{2cm}}$

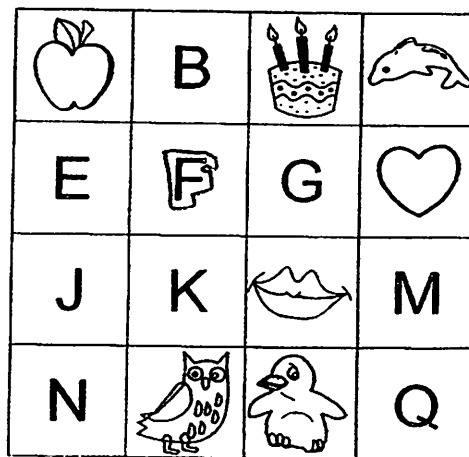
- (1)  $\frac{5}{2}$
- (2)  $\frac{4}{15}$
- (3)  $\frac{7}{10}$
- (4)  $\frac{5}{4}$





8 In the figure, which angle is greater than a right angle?

- (1)  $\angle w$   
 (2)  $\angle x$   
 (3)  $\angle y$   
 (4)  $\angle z$



9 The picture below shows a game board. Which object lies southeast of the letter F.



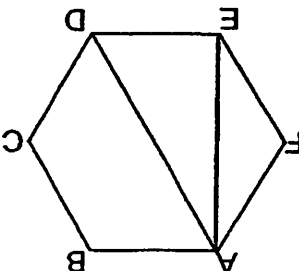
- (1) 
- (2) 
- (3) 
- (4) 

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(Go on to the next page)

- 12 Complete the following number pattern
- 4, 8, 14, \_\_\_\_\_, \_\_\_\_\_, 44, 58, 74
- (1) 18, 28  
 (2) 20, 26  
 (3) 22, 32  
 (4) 24, 34

- 11 Which one of the following figures has parallel and perpendicular lines?
- (1) H  
 (2) L  
 (3) M  
 (4) T

- 10 In the figure, which line is perpendicular to AB?
- 
- (1) AD  
 (2) AE  
 (3) BC  
 (4) ED

13 Which of the following is a common factor of 16 and 28?

- (1) 14
- (2) 8
- (3) 7
- (4) 4

14  $5 \times \frac{4}{3} = \frac{1}{8} \times \square$ . What is the missing number in the box?

- (1) 15
- (2) 23
- (3) 30
- (4) 38

15 Vanda Primary School arranged an excursion for its Primary 4 pupils to Chinatown. The table below shows the number of pupils who participated in the excursion.

Class	Enrolment	Attendance
4A	39	35
4B	40	36
4C	42	40
4D	40	39
4E	38	37

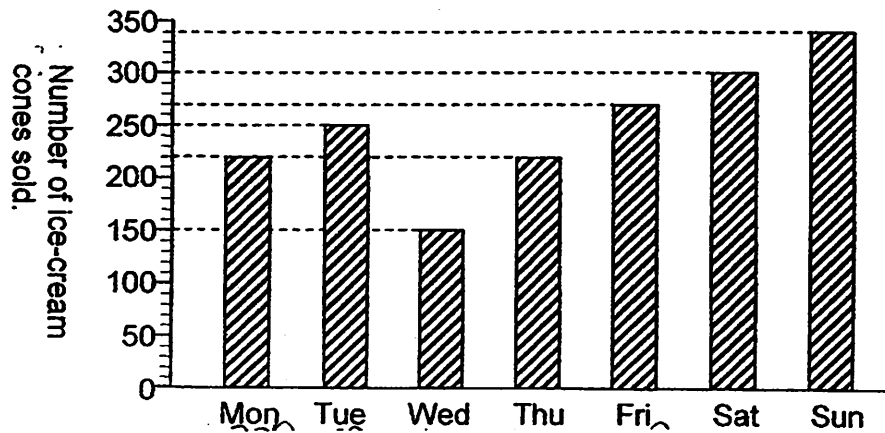
How many P4 pupils did not participate in the excursion?

- (1) 11
- (2) 12
- (3) 13
- (4) 14

(Go on to the next page)

Use the graph to answer questions 16 and 17.

The bar graph shows the sale of ice-cream cones last week.



16 How many days in that week did the store sell more than 250 cones per day?

- (1) 1
- (2) 2
- (3) 3
- (4) 4

17 Between which two days was the difference in the number of cones sold the greatest?

- (1) Monday and Saturday
- (2) Tuesday and Sunday
- (3) Thursday and Saturday
- (4) Wednesday and Sunday

(Go on to the next page)

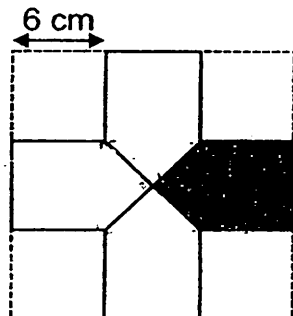
- 18 Joan bought 3 bags of candies. Each bag contained 20 candies. She gave 18 candies to May and 6 candies to June. What fraction of the candies did she have left?

- (1)  $\frac{1}{3}$   
 (2)  $\frac{2}{5}$   
 (3)  $\frac{3}{5}$   
 (4)  $\frac{5}{6}$

- 19 Mr Lim paid \$120 for 3 identical shirts and a pair of pants. Each pair of pants cost twice as much as the shirt. How much did Mr Lim pay for the pair of pants?

- (1) \$24  
 (2) \$30  
 (3) \$48  
 (4) \$60

- 20 The figure of a cross is drawn on a square grid of size 6 cm. It is divided into equal parts as shown below. What is the area of the shaded part?



- (1)  $6 \text{ cm}^2$   
 (2)  $18 \text{ cm}^2$   
 (3)  $30 \text{ cm}^2$   
 (4)  $45 \text{ cm}^2$

# METHODIST GIRLS' SCHOOL (PRIMARY)

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## MID-YEAR EXAMINATION 2011 PRIMARY 4 MATHEMATICS

### BOOKLET B

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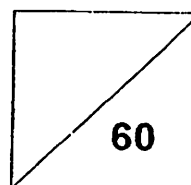
Answer all questions.

Write your answers in this booklet.

Name: \_\_\_\_\_ ( )

Class: Primary 4. \_\_\_\_\_

Date: 5 May 2011

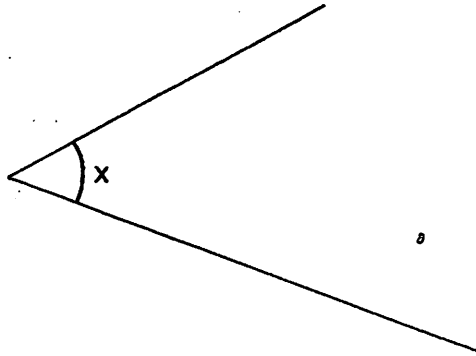


This booklet consists of 11 printed pages including this page.

Questions 21 to 40 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (40 marks)

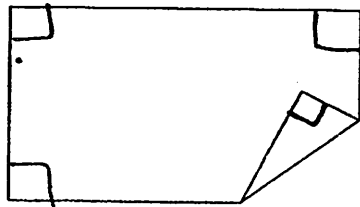
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21 Measure the size of  $\angle x$ .



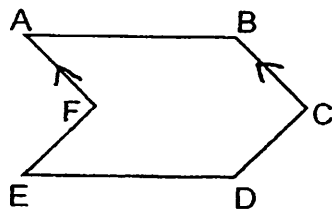
Ans: \_\_\_\_\_°

22 A rectangular piece of paper is folded at one of the corners. How many right angles are there?



Ans: \_\_\_\_\_

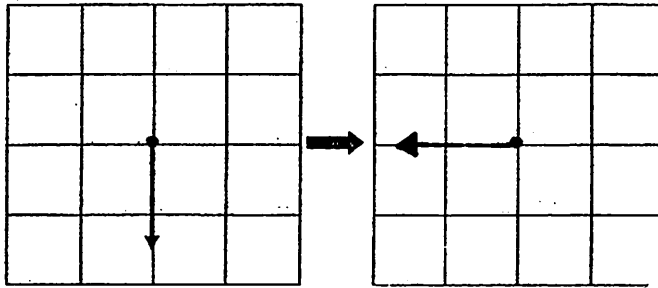
23 Name the line parallel to BC.



Ans: \_\_\_\_\_

(Go on to the next page)

- 24 The figure shows a spinner. The spinner makes 3 right-angle turns in the anti-clockwise direction. Draw the final position of the spinner in the blank grid.



- 25 Use all the digits 8, 0, 9 and 6 to form the smallest even number.

Ans: \_\_\_\_\_

- 26 A grocer sold 807 mangoes on Monday and 658 mangoes on Tuesday. How many mangoes were sold on both days? Round off your answer to the nearest ten.

Ans: \_\_\_\_\_

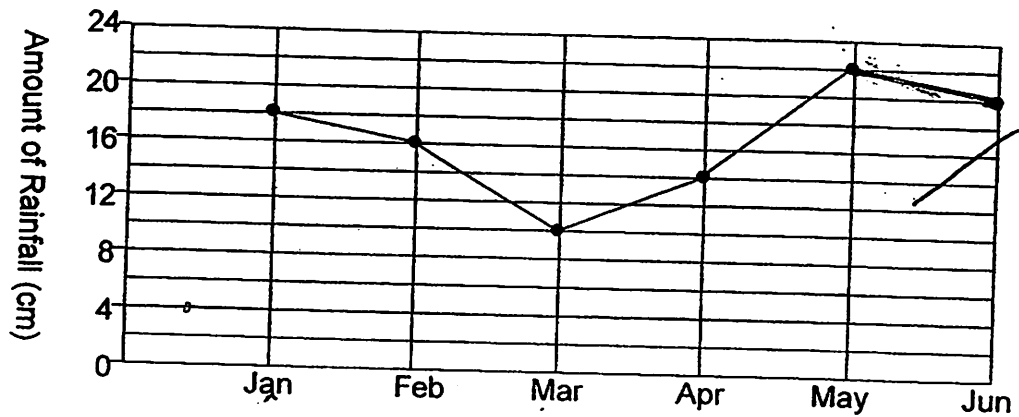
- 27 Apples are sold at 40 cents each or 6 for \$2.00 during a special offer. How much will I save if I purchased a dozen apples during the special offer?

Ans: \$ \_\_\_\_\_

(Go on to the next page)

Use the graph to answer questions 28 to 30.

The graph shows the amount of rainfall over 5 months in Toledo Island in 2010.



- 28 What was the amount of rainfall collected in the driest month?

Ans: \_\_\_\_\_ cm

- 29 A total of 100 cm of rainfall was collected in the first 6 months. Complete the graph for the month of June.

- 30 What fraction of the total rainfall was collected in April? Give your answer in the simplest form.

Ans: \_\_\_\_\_

(Go on to the next page)

- 31 There are 240 households at Sunshine Ville. The table shows the number of children each household has.

Number of children	0	1	2	3	4
Number of households	118	65	40	15	2

How many households have fewer than 3 children?

Ans: \_\_\_\_\_

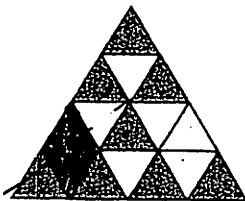
- 32 What is the smallest number that has 4 factors?

Ans: \_\_\_\_\_

- 33 Two pizzas were cut into 12 pieces and shared equally among 12 guests at a party. What fraction of each pizza did each guest receive?

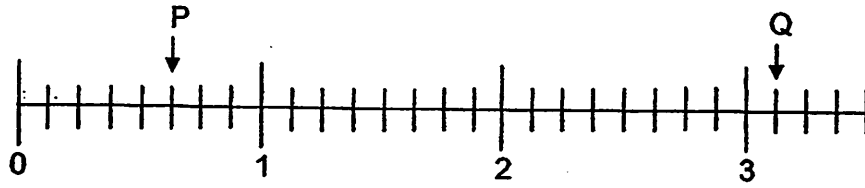
Ans: \_\_\_\_\_

- 34 Shade the correct number of  $\triangle$  such that  $\frac{5}{8}$  of the figure is shaded.



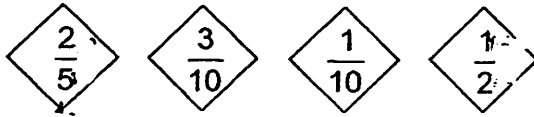
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- 35 P and Q are two numbers on the number line below. Find  $P + Q$ . Give your answer in its simplest form.



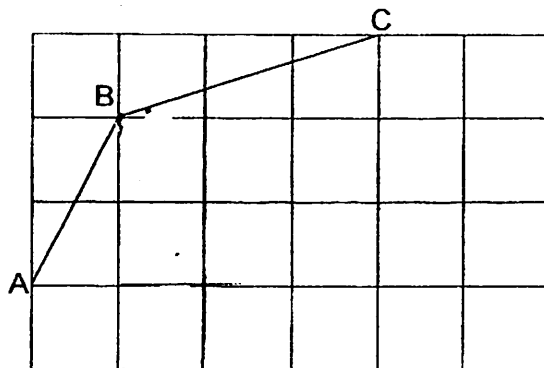
Ans:

- 36 Which fractions below add up to 1 whole?



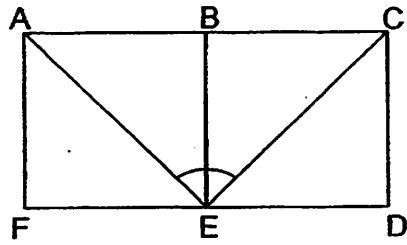
Ans:

- 37 In the figure below, draw a line perpendicular to BC in the grid.



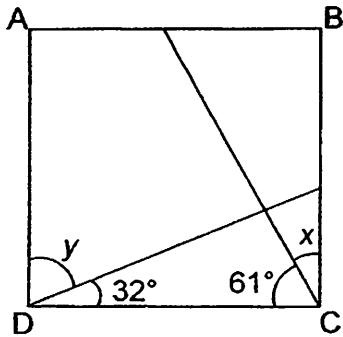
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- 38 The figure is made up of 2 squares. What is the value of  $\angle AEC$ ?



Ans: \_\_\_\_\_°

- 39 ABCD is a square. What is  $\angle x + \angle y$ ?



Ans: \_\_\_\_\_°

(Go on to the next page)

- 40 Beads were arranged in this sequence to form a long necklace. 120 beads were used altogether. How many heart-shaped beads were there?

Ans: \_\_\_\_\_

(Go on to the next page)

For questions 41 to 45 show your working clearly in the space below each question and write your answers in the space provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (20 marks)

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- 41 Bob has 2 photo albums. There are 8 photographs on each page of the album. Album A has 152 photographs. Album B has 7 fewer pages than Album A. How many pages are there in Album B?

Ans: \_\_\_\_\_ [4]

- 42 Jane bought some stickers. She gives  $\frac{1}{3}$  of them to her sister and  $\frac{1}{2}$  of them to her friend. She had 24 stickers left. How many stickers did she buy?

Ans: \_\_\_\_\_ [4]

(Go on to the next page)

- 43 Two books cost as much as 3 magazines. Jane paid \$36 for 6 books. How much must she pay if she wants to buy 5 magazines?

Ans: \_\_\_\_\_ [4]

- 44 A shopkeeper keeps his stock of rice in 50-kg bags. He had 4 such bags to be packed into smaller packets weighing 5 kg and 2 kg. He wants to have the same number of 5-kg packets and 2-kg packets.
- (a) How many packets of rice can he pack altogether?  
(b) How much rice is left over?

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [1]

(Go on to the next page)

- 45 Ali and Bala had \$126 altogether. Ali had more money than Bala. Each of them spent  $\frac{1}{3}$  of their money. Then Bala had \$28 left. How much money did Ali have left?

Ans: \_\_\_\_\_ [4]

End of Paper

# ANSWER SHEET

## EXAM PAPER 2011

SCHOOL : MGS  
SUBJECT : PRIMARY 4 MATHEMATICS

TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
2	3	3	1	4	3	3	2	4	2	1	3	4	3	2	3	4

Q18	Q19	Q20
3	3	4

21)  $48^\circ$       22) 4      23) AF      24)

25) 6098      26) 1470      27) \$0.80

28) 10cm      29)

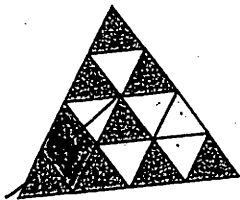
30)  $7/50$

31) 223 households

32) 6

33)  $1/6$

34)



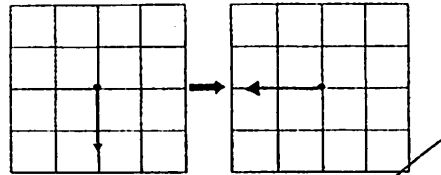
35)  $3\frac{3}{4}$       36)  $\frac{1}{2}, \frac{2}{5}, \frac{1}{10}$       37)

38)  $45 \times 2 = 90^\circ$

39)  $90^\circ - 61^\circ = 29^\circ$

$90^\circ - 32^\circ = 58^\circ$

$58^\circ + 29^\circ = 87^\circ$



40)  $120 \div 5 = 24$

$24 \times 2 = 48$  heart-shaped beads

41)  $152 \div 8 = 19$

$19 - 7 = 12$

There are 12 pages in Album B.

42)  $1/3 + 1/2$

$= 2/6 + 3/6$

$= 5/6$

$6/6 - 5/6 = 1/6$

1 unit  $\rightarrow$  24

6 units  $\rightarrow$   $24 \times 6 = 144$

She bought 144 stickers.

43)  $\$36 \div 6 = \$6$

$\$6 \times 2 = \$12$

$\$12 \div 3 = \$4$

$5 \times \$4 = \$20$

She must pay \$20 if she want to buy 5 magazines.

44)a)  $50\text{kg} \times 4 = 200\text{kg}$

$5\text{kg} + 2\text{kg} = 7\text{kg}$

$200\text{kg} \div 7\text{kg} = 28\text{R}4$

$28 \times 2 = 56$

He can pack 56 packets of rice altogether.

b) 4kg of rice is left over.

45)  $\$28 \div 2 = \$14$

$\$12 \times 3 = \$42$

$\$126 - \$42 = \$84$

$\$84 \div 3 = \$28$

$\$28 \times 2 = \$56$

Ali had \$56 left.