

# METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



## END-OF-YEAR EXAMINATION PRIMARY 3 MATHEMATICS

### BOOKLET A

#### Total Time

Booklets A to C: 1 hour 30 minutes

#### INSTRUCTIONS TO CANDIDATES

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

Follow all instructions carefully.

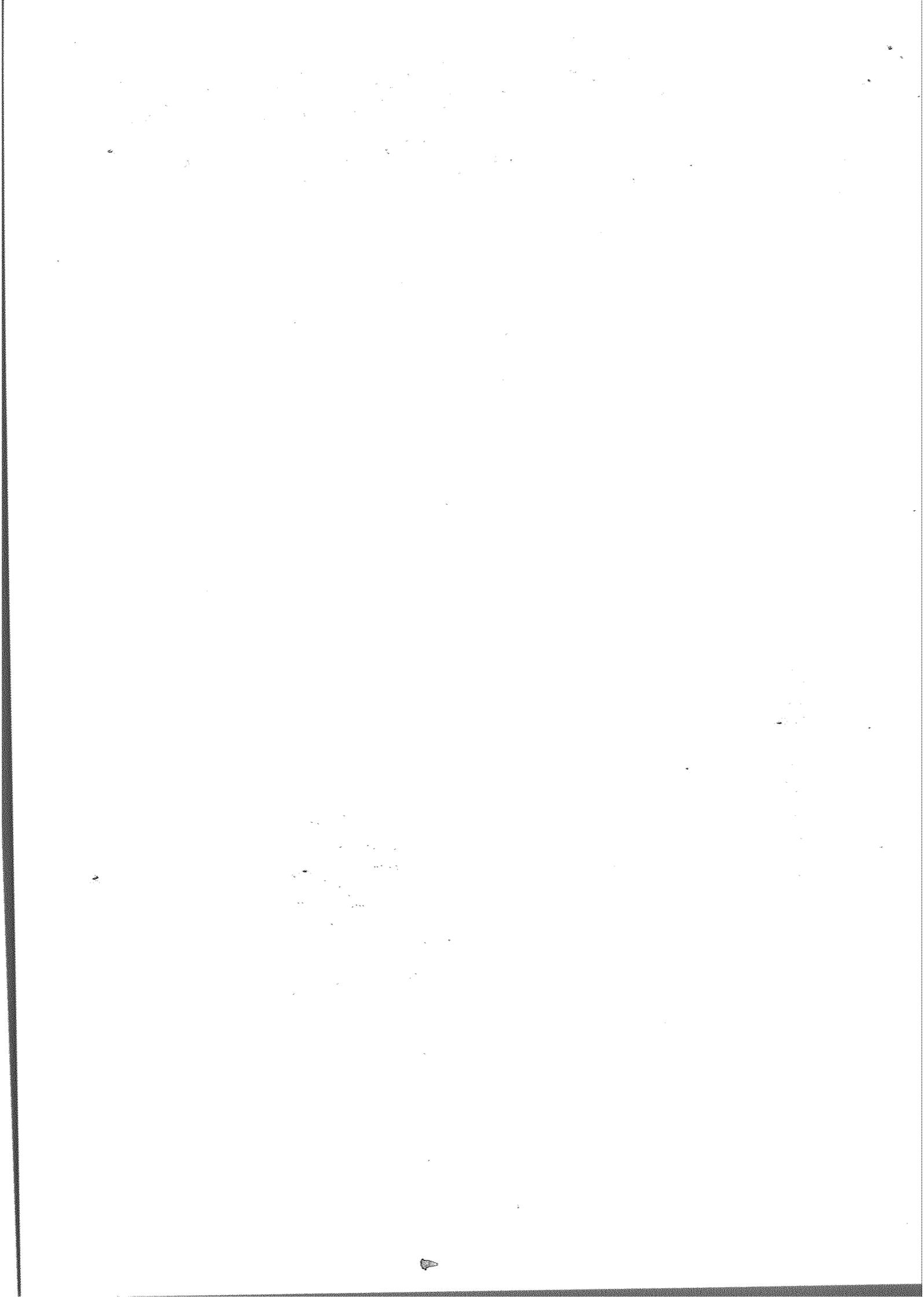
Answer all questions.

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

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

Class: Primary 3. \_\_\_\_\_

This booklet consists of 8 printed pages including this page



Questions 1 to 4 carry 1 mark each. Questions 5 to 16 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.

(28 marks)

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1 Six thousand, seven hundred and fifty written as numeral is \_\_\_\_\_.

- (1) 675
- (2) 6705
- (3) 6715
- (4) 6750

2 What is the value of the digit 7 in 8713?

- (1) 7
- (2) 70
- (3) 700
- (4) 7000

3 Which of the following is the same as 6804?

- (1)  $6000 + 800 + 4$
- (2)  $6000 + 80 + 4$
- (3)  $600 + 800 + 4$
- (4)  $600 + 80 + 4$

(Go on to the next page)

4 Which of the following is arranged from the smallest to the greatest?

- (1) 6235, 6532, 6325, 6523
- (2) 6253, 6235, 6325, 6523
- (3) 6235, 6253, 6325, 6352
- (4) 6253, 6325, 6532, 6523

5 Find the sum of 1263 and 3825.

- (1) 2562
- (2) 2642
- (3) 4088
- (4) 5088

6 5 boys shared 524 sweets equally. How many sweets were left?

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

(Go on to the next page)

7 Which of the following fractions is equivalent to  $\frac{2}{5}$  ?

(1)  $\frac{4}{5}$

(2)  $\frac{4}{7}$

(3)  $\frac{4}{10}$

(4)  $\frac{2}{10}$

8 Which of the following has the greatest volume?

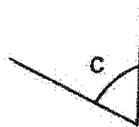
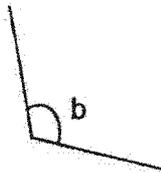
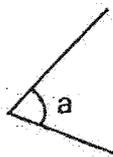
(1) 2 l

(2) 270 ml

(3) 207 ml

(4) 2 l 7 ml

9 Which of these angles are smaller than a right angle?



(1)  $\angle a$  and  $\angle c$

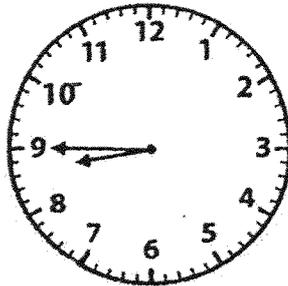
(2)  $\angle a$  and  $\angle d$

(3)  $\angle b$  and  $\angle c$

(4)  $\angle b$  and  $\angle d$

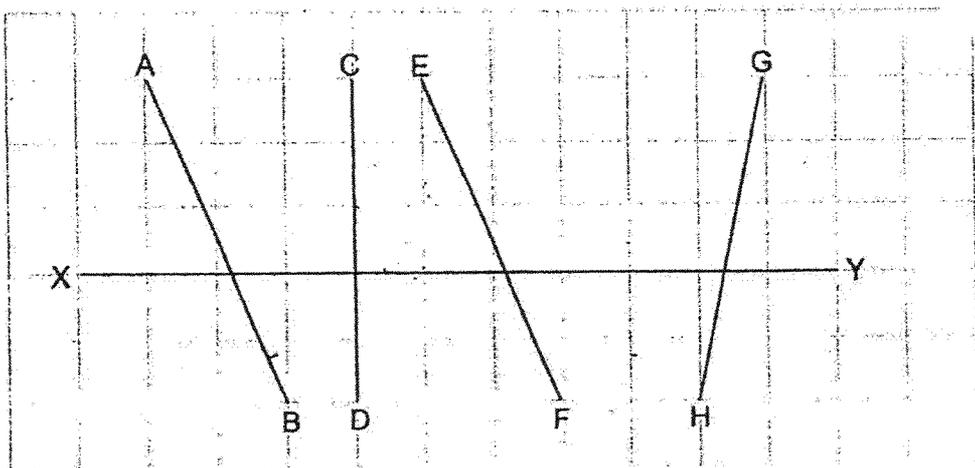
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10 What is the time shown on the clock?



- (1) 15 min to 9
- (2) 15 min to 8
- (3) 17 min to 9
- (4) 17 min to 8

11 Which line is perpendicular to XY?



- (1) AB
- (2) EF
- (3) GH
- (4) CD

(Go on to the next page)

12  $12 \times 4 = \square \times 8$

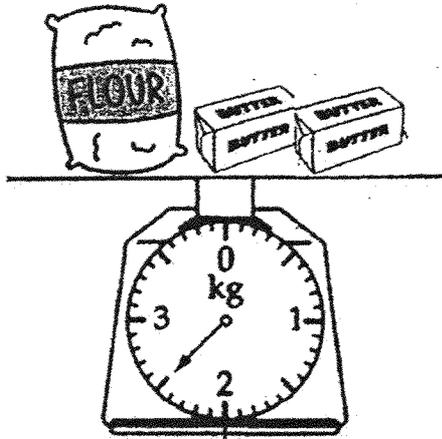
- (1) 6
- (2) 2
- (3) 8
- (4) 4

13 Which of the following fractions is greater than  $\frac{5}{9}$ ?

- (1)  $\frac{1}{2}$
- (2)  $\frac{5}{7}$
- (3)  $\frac{3}{8}$
- (4)  $\frac{4}{10}$

(Go on to the next page)

- 14 There are 2 identical blocks of butter and 1 packet of flour on the weighing scale below. The packet of flour is 2 kg. Find the mass of 1 block of butter.



- (1) 2 kg 500 g  
(2) 500 g  
(3) 250 g  
(4) 25 g
- 15 Ali wanted to buy a shirt and a pair of shorts. He has \$20. How much more does he need?



Shirt  
\$17.80

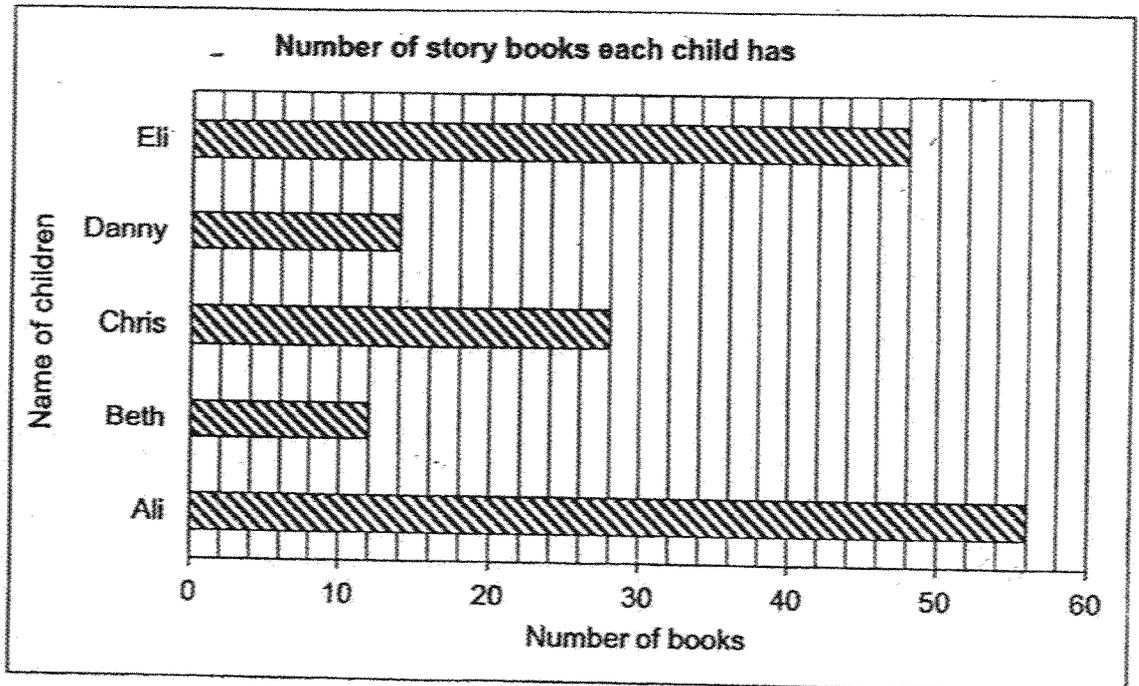


Shorts  
\$22.10

- (1) \$39.90  
(2) \$19.90  
(3) \$4.30  
(4) \$2.20

(Go on to the next page)

- 16 The graph below shows the number of story books 5 children have.



Who has 2 times as many storybooks as Chris?

- (1) Ali
- (2) Beth
- (3) Danny
- (4) Eli

(Go on to Booklet B)

# METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



## END-OF-YEAR EXAMINATION PRIMARY 3 MATHEMATICS

### BOOKLET B

#### Total Time

Booklets A to C: 1 h 30 minutes

#### INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.  
Follow all instructions carefully.  
Answer all questions.

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

Class: Primary 3. \_\_\_\_\_

|                  |             |
|------------------|-------------|
| <b>Booklet A</b> | <b>/ 28</b> |
| <b>Booklet B</b> | <b>/ 32</b> |
| <b>Booklet C</b> | <b>/ 20</b> |
| <b>TOTAL</b>     | <b>/ 80</b> |

Parent's Signature: \_\_\_\_\_

This booklet consists of 10 printed pages including this page.

Questions 17 to 20 carry 1 mark each. Write your answers in the spaces provided.  
For questions which require units, give your answers in the units stated.

Do not write  
in this space

(4 marks)

17 \_\_\_\_\_ is 1000 less than 7012.

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

18 What is the quotient when 64 is divided by 9?

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

19 Express 2045 cm in metres and centimetres.

Do not write  
in this space

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

20 Add \$37.15 to \$70.05.

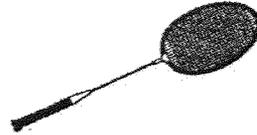
Ans: \$ \_\_\_\_\_

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Questions 21 to 34 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (28 marks)

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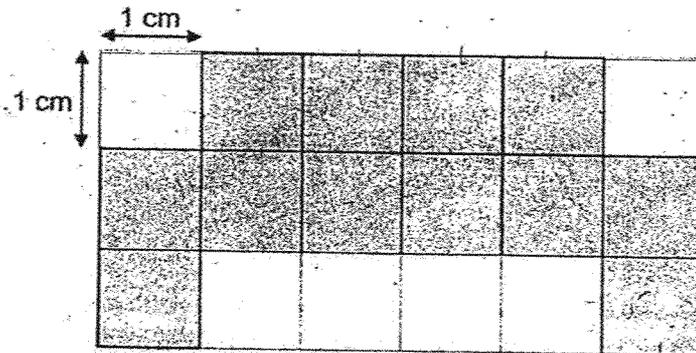
- 21 Elsa bought a badminton racket for \$26.50. She gave the cashier \$50. What is the amount of change she should get?



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

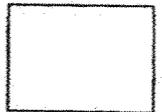


- 22 What is the area and perimeter of the shaded figure?



Ans: Area of figure \_\_\_\_\_ cm<sup>2</sup>

Perimeter of figure \_\_\_\_\_ cm



(Go on to the next page)

- 23 Mei Mei has 2356 roses.  
Devi has 2715 roses.  
How many roses do they have altogether?

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in this space

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

- 24 3 children shared some marbles.  
Each child received 15 marbles.  
How many marbles were there altogether?

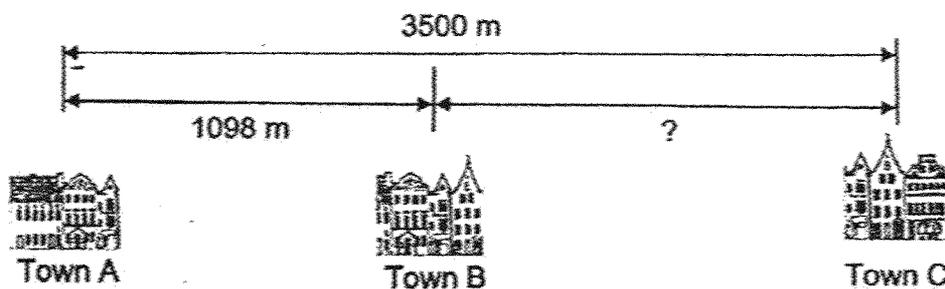
Ans: \_\_\_\_\_

(Go on to the next page)



- 28 The distance between Town A and Town B is 1098 m.  
The distance between Town A and Town C is 3500 m.  
What is the distance between Town B and Town C?  
Give your answer in kilometres and metres.

Do not write  
in this space



Ans: \_\_\_\_\_ km \_\_\_\_\_ m

- 29 Raju took 50 min to mop the floor. He took 25 min to wash his shoes.  
How long did he take to complete both jobs? Give your answer in h and min.

Ans: \_\_\_\_\_ h \_\_\_\_\_ min

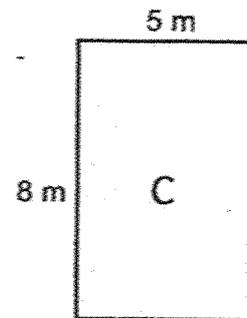
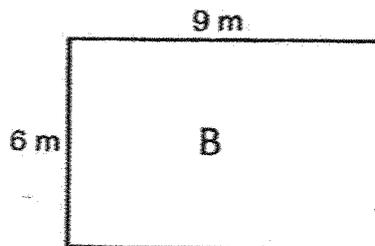
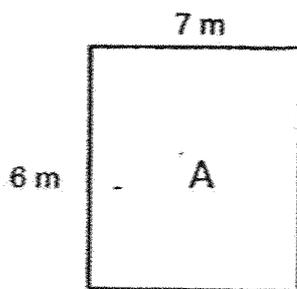
(Go on to the next page)

- 30 A tennis match was played from 9.15 a.m. to 11.05 a.m.  
How long did the tennis match last?

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

- 31 Which rectangle has the smallest area?



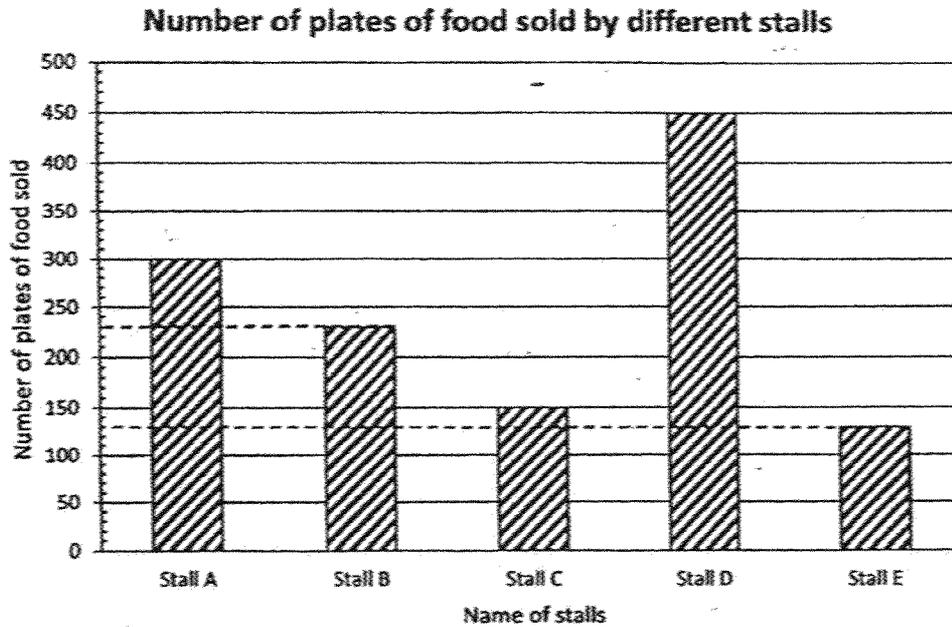
Ans: Rectangle \_\_\_\_\_

(Go on to the next page)

32

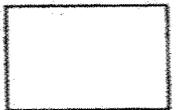
The graph below shows the number of plates of food sold by different stalls.

Do not write  
in this space



Each plate of food was sold at \$3. Which stall would collect a total of \$450 from the number of plates of food sold?

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



(Go on to the next page)

- 33 Jim is thinking of a 3-digit even number.  
It can be divided by 3 without remainder.  
The digit in the hundreds place is 2 times the digit in the tens place.  
What is the smallest possible number?

Do not write  
in this space

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

- 34 Mrs Lim baked 126 cupcakes. She packed all of them into boxes.  
Each box can hold 8 cupcakes. What was the least number of boxes  
Mrs Lim needed?

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

(Go on to Booklet C)

# METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



## END-OF-YEAR EXAMINATION PRIMARY 3 MATHEMATICS

### BOOKLET C

#### Total Time

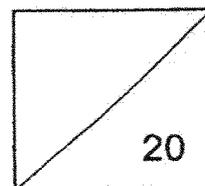
Booklets A to C: 1 hour 30 minutes

#### INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.  
Follow all instructions carefully.  
Answer all questions.

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

Class: Primary 3. \_\_\_\_\_



This booklet consists of 5 printed pages including this page.

For questions 35 to 40, show your workings clearly 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. (20 marks)

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- 35 In a theatre, there were 460 men, 345 women and 226 children.  
How many more adults than children were there in the theatre?

Ans: \_\_\_\_\_ [3]

- 36 A badminton racket and a T-shirt cost \$172.  
The racket is cost \$36 more than the T-shirt.  
What is the cost of the T-shirt?

Ans: \_\_\_\_\_ [3]

(Go on to the next page)

- 37 Raju bought 7 packets of sweets. Each packet has 150 sweets. He puts 6 sweets in each goodie bag. How many goodie bags did Raju have?

Do not write  
in this space

Ans: \_\_\_\_\_ [3]

- 38 2 books and 1 bag cost \$58.  
1 book and 1 bag cost \$43.  
What is the cost of 1 bag?

Ans: \_\_\_\_\_ [3]

(Go on to the next page)

39 A baker has 100 eggs. He needs 6 eggs to bake a cake.

(a) What is the most number of cakes he can bake?

Do not write  
in this space

Ans: \_\_\_\_\_ [2]

(b) How many more eggs would the baker need to bake 1 more cake?

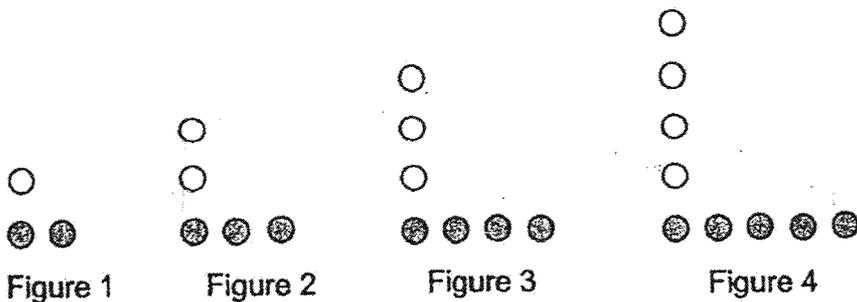
Ans: \_\_\_\_\_ [2]

(Go on to the next page)

40

Devi uses white and grey beads to form figures that follow a pattern. The first four figures are shown below.

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a) Complete the table below for Figure 5.

| Figure | White beads | Grey beads | Total |
|--------|-------------|------------|-------|
| 1      | 1           | 2          | 3     |
| 2      | 2           | 3          | 5     |
| 3      | 3           | 4          | 7     |
| 4      | 4           | 5          | 9     |
| 5      |             |            |       |

[1]

b) How many grey beads are there in Figure 10?

Ans: b) \_\_\_\_\_ [1]

c) What is the total number of beads in Figure 20?

Ans: c) \_\_\_\_\_ [2]

LEVEL : PRIMARY 3  
 SCHOOL : METHODIST GIRLS' SCHOOL (PRIMARY)  
 SUBJECT : MATHEMATICS  
 TERM. : END OF YEAR EXAMINATION

**(BOOKLET A)**

|     |   |     |   |     |   |     |   |     |   |
|-----|---|-----|---|-----|---|-----|---|-----|---|
| Q1  | 4 | Q   | 3 | Q3  | 1 | Q4  | 3 | Q5  | 4 |
| Q6  | 4 | Q7  | 3 | Q8  | 4 | Q9  | 1 | Q10 | 1 |
| Q11 | 4 | Q12 | 1 | Q13 | 2 | Q14 | 3 | Q15 | 2 |
| Q16 | 1 |     |   |     |   |     |   |     |   |

**(BOOKLET B)**

|     |   |     |   |
|-----|---|-----|---|
| Q17 | $7012 - 1000 = 6012$  | Q18 | $64 \div 9 = 7R1$<br>Ans: 7   |
| Q19 | $2045\text{cm} = 20\text{m } 45\text{cm}$   | Q20 | $\$70.05 + \$37.15 = \$107.20$  |
| Q21 | $\$50 - \$26.50 = \$23.50$  | Q22 | 1 box = 1cm<br>$12 \times 1\text{cm}^2 = 12\text{cm}^2$<br>Ans: Area of figure <u>12cm<sup>2</sup></u><br>Perimeter of figure <u>20cm</u> |
|     | Total no. of roses = $2356 + 2715 = 5071$ roses.  | Q24 | No. of marbles = $3 \times 15 = 45$   |
| Q25 | $\frac{1}{3} = \frac{4}{12}$<br>$\frac{7}{12} - \frac{3}{12} = \frac{4}{12}$<br>$= \frac{1}{3}$   | Q26 | $\frac{3}{8} + \frac{3}{7} + \frac{1}{2} + \frac{3}{5}$   |
| Q27 | Amount of more water = $400\text{ml} - 150\text{ml} = 250\text{ml}$   | Q28 | Distance between Town A and Town C = $3500\text{m} - 1098\text{m} = 2402 = 2\text{km } 402\text{m}$                                       |
| Q29 | Total time taken = $50\text{min} + 25\text{min} = 75\text{min} = 1\text{h } 15\text{min}$   | Q30 | Total time taken = $1\text{h} + 45\text{min} + 5\text{min} = 1\text{h } 50\text{min}$   |
| Q31 | Area of A = $7 \times 6 = 42\text{m}^2$<br>Area of B = $9 \times 6 = 54\text{m}^2$<br>Area of C = $8 \times 5 = 40\text{m}^2$<br>Ans: Rectangle C | Q32 | Total no. of plates = $\$450 \div 3 = 150$<br>Ans: Stall C  |
| Q33 | Start by using the smallest numbers:<br>H   O<br>2   1   0<br>Ans: 210  | Q34 | $126 \div 8 = 15R6$<br>$15 + 1 = 16$  |

**BOOKLET C**

| Q35    | <p>No. of adults = <math>460 + 345</math><br/> <math>= 805</math><br/>           No. of adults more than children<br/> <math>= 805 - 226 = 579</math><br/>           There were 579 more adults than children in the theatre.</p>  | Q36        | <p><math>2u = \\$172 = \\$36 = \\$136</math><br/> <math>1u = \\$136 \div 2 = \\$68</math><br/>           The cost of the T-shirt is \$68.</p>  |        |             |            |       |   |   |   |    |
|--------|--|------------|--|--------|-------------|------------|-------|---|---|---|----|
| Q37    | <p><math>150 \times 7</math><br/> <math>= 1050</math> (Total no. of sweets.)<br/> <math>1050 \div 6</math><br/> <math>= 175</math> (No. of goodie bags)<br/>           Raju had 175 goodie bags.</p>   | Q38        | <p><math>\\$58 - \\$43 = \\$15</math><br/>           Cost of 1 bag = <math>\\$43 - \\$15 = \\$28</math><br/>           The cost of bag is \$28</p>   |        |             |            |       |   |   |   |    |
| Q39    | <p>a) <math>100 \div 6 = 16</math> R4 (4 eggs left)<br/>           Most no. of cakes = 16<br/>           The most number of cakes he can bake is 16 cakes.</p> <p>b) No. of eggs left = 4<br/>           No. of eggs needed to bake a cake = 6.<br/>           No. of eggs needed = <math>6 - 4 = 2</math><br/>           The baker would need 2 more eggs</p> | Q40        | <p>a)</p> <table border="1" data-bbox="959 775 1407 891"> <thead> <tr> <th>Figure</th> <th>White beads</th> <th>Grey beads</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>5</td> <td>6</td> <td>11</td> </tr> </tbody> </table> <p>b) No. of grey beads<br/> <math>= \text{Figure No.} + 1</math><br/> <math>= 10 + 1</math><br/> <math>= 11</math></p> <p>c) No. of white beads = figure no.<br/>           Tdtal no. of beads<br/> <math>= \text{WB} + \text{GB}</math><br/> <math>= 20 + 20 + 1</math><br/> <math>= 41</math></p> | Figure | White beads | Grey beads | Total | 5 | 5 | 6 | 11 |
| Figure | White beads  | Grey beads | Total  |        |             |            |       |   |   |   |    |
| 5      | 5  | 6          | 11   |        |             |            |       |   |   |   |    |