METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

END-OF-YEAR EXAMINATION 2022
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._____

Date: 2 November 2022

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)

---

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) ∠a and ∠c

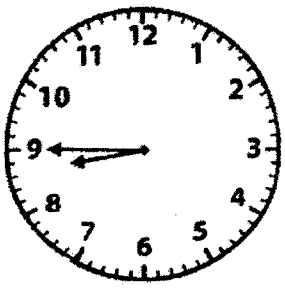
(2) ∠a and ∠d

(3) ∠b and ∠c

(4) ∠b and ∠d

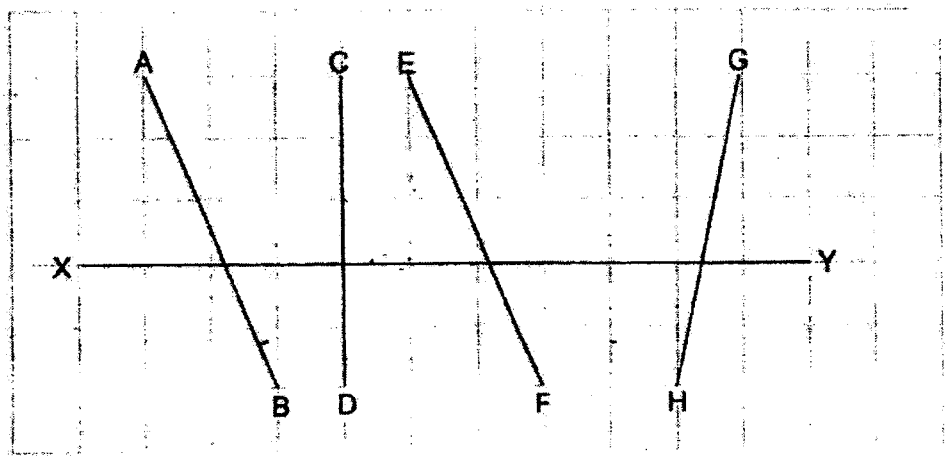
(Go on to the next page)

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) $\frac{1}{2}$

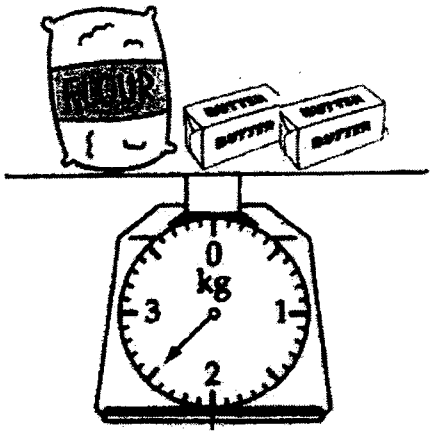
(2) $\frac{5}{7}$

(3) $\frac{3}{8}$

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

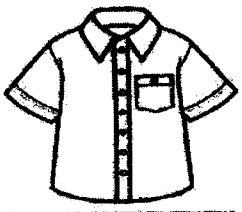
(Go on to the next page)

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.

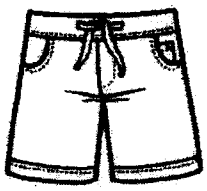


(1) 2 kg 500 g
(2) 500 g
(3) 250 g
(4) 25 g

15 Ali wanted to buy a shirt and a pair of shorts. He has $20. How much more does he need?



Shirt
$17.80

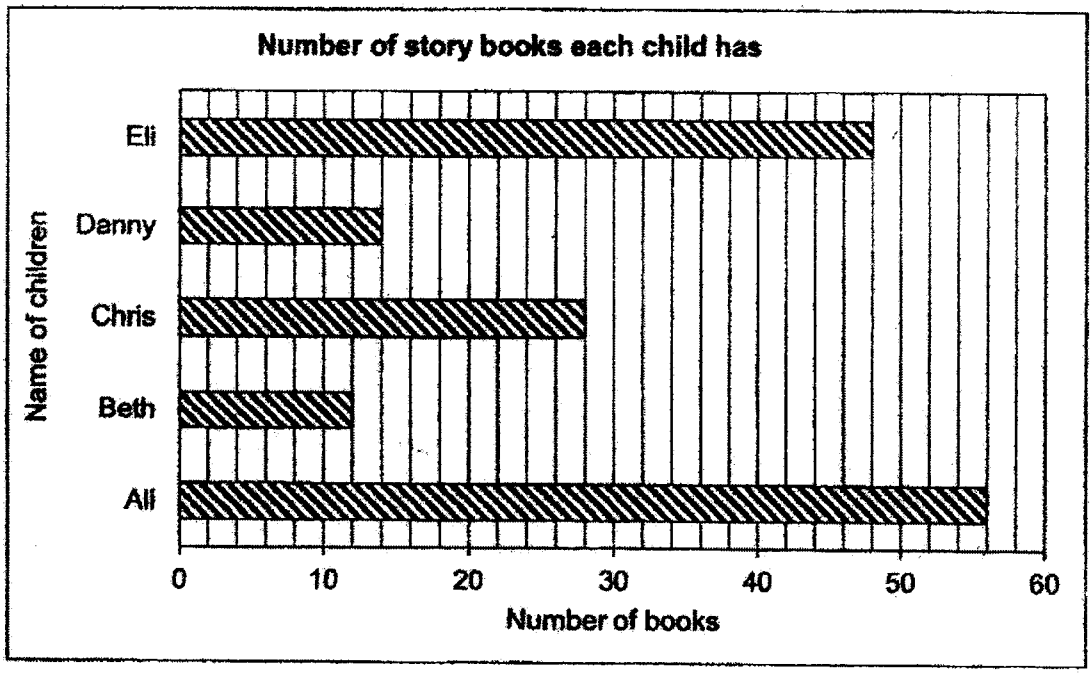


Shorts
$22.10

(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)

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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._____

Date: 2 November 2022

Booklet A	/ 28
Booklet B	/ 32
Booklet C	/ 20
TOTAL	/ 80

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. (4 marks)

Do not write in this space

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.

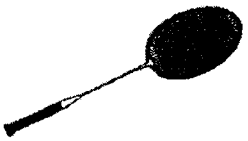
Ans: $ _____

(Go on to the next page)

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)

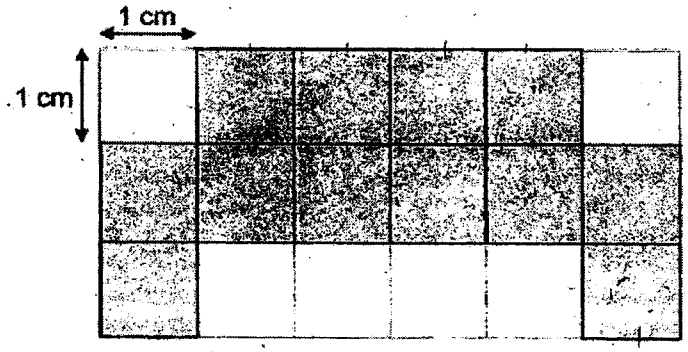
Do not write in this space

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^2

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?

Do not write 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)

Do not write in this space

25 Find the value of $\frac{7}{12} - \frac{1}{3}$.
Write your answer in the simplest form.

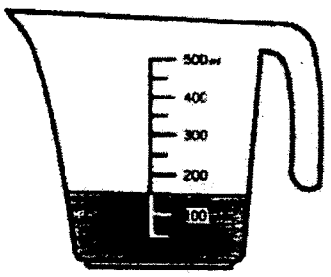
Ans: _____

26 Arrange the fractions in order, beginning with the smallest.

$\frac{1}{2}$, $\frac{3}{5}$, $\frac{3}{8}$, $\frac{3}{7}$

Ans: _____, _____, _____, _____
smallest greatest

27 Mark needs 400 ml of water.
How much more water does he need to pour into the jug?

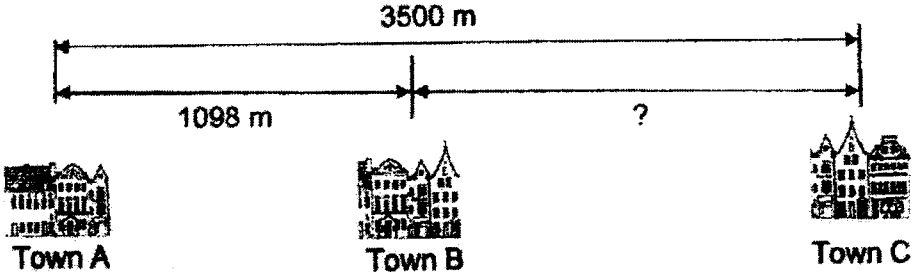


Ans: _____ ml

(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

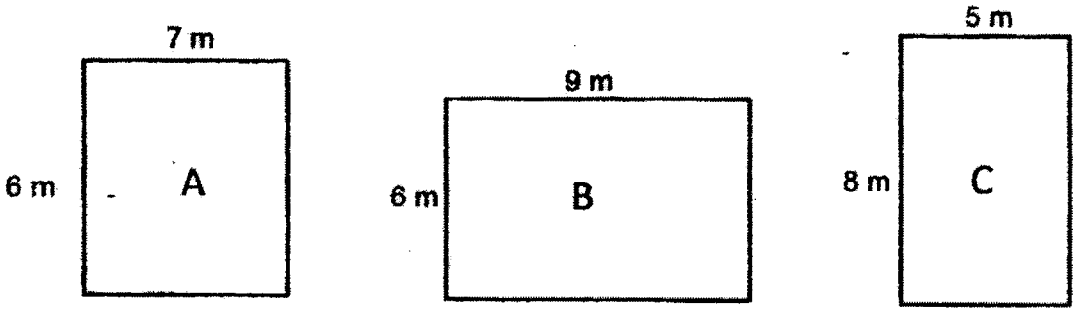
(Go on to the next page)

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

Do not write in this space

Ans: _____ min

31 Which rectangle has the smallest area?

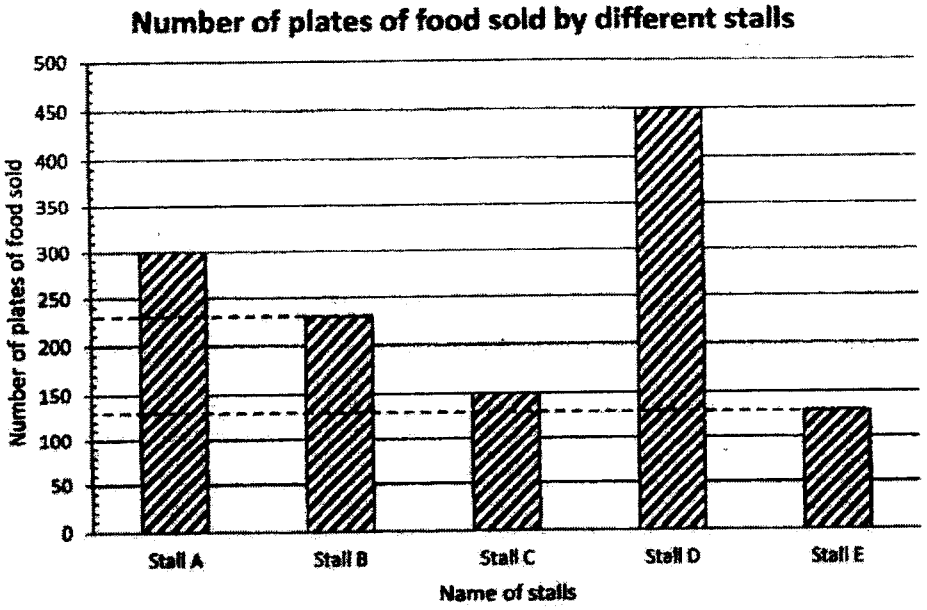


Ans: Rectangle

(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)

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END-OF-YEAR EXAMINATION 2022
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._____

Date: 2 November 2022

20

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)

Do not write in this space

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.

Do not write in this space

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

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.

Do not write in this space

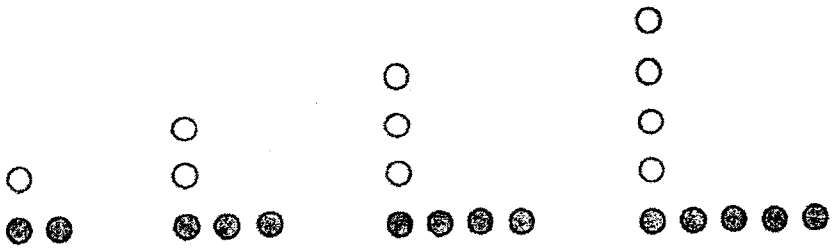

Figure 1 Figure 2 Figure 3 Figure 4

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]

END OF PAPER

YEAR : 2022
LEVEL : PRIMARY 3
SCHOOL : METHODIST GIRLS' SCHOOL (PRIMARY)
SUBJECT : MATHEMATICS
TERM. : END OF YEAR EXAMINATION

(BOOKLET A)

Q1	4	Q2	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 ÷ 9 = 7 R1 Ans: 7
Q19	2045cm = 20m 45cm	Q20	\$70.05 + \$37.15 = \$107.20
Q21	\$50 - \$26.50 = \$23.50	Q22	1 box = $1cm^2$ 12 x $1cm^2$ = $12cm^2$ Ans: Area of figure $12cm^2$ Perimeter of figure 20cm
Q23	Total no. of roses = 2356 + 2715 = 5071 roses.	Q24	No. of marbles = 3 x 15 = 45
Q25	$\frac{1}{3} = \frac{4}{12}$ $\frac{7}{12} - \frac{1}{3} = \frac{7}{12} - \frac{4}{12}$ $= \frac{3}{12}$ $= \frac{1}{4}$	Q26	$\frac{3}{8}, \frac{3}{7}, \frac{1}{2}, \frac{2}{5}$
Q27	Amount of more water = 400ml – 150ml = 250ml	Q28	Distance between Town A and Town C = 3500m – 1098m = 2402 = 2km 402m
Q29	Total time taken = 50min + 25min = 75min = 1h 15min	Q30	Total time taken = 1h + 45min + 5min = 1h 50min
Q31	Area of A = 7 x 6 = $42m^2$ Area of B = 9 x 6 = $54m^2$ Area of C = 8 x 5 = $40m^2$ Ans : Rectangle C	Q32	Total no. of plates = \$450 ÷ 3 = 150 Ans: Stall C
Q33	Start by using the smallest numbers: H I O 2 1 0 Ans: 210	Q34	126 ÷ 8 = 15 R6 15 + 1 = 16

BOOKLET C

<table>
<tr><td>Q35</td><td>No. of adults = 460 + 345
= 805
No. of adults more than children
= 805 – 226 = 579
There were 579 more adults than children in the theatre.</td><td>Q36</td><td>2u = $172 = $36 = $136
1u = $136 ÷ 2 = $68
The cost of the T-shirt is $68.</td></tr>
<tr><td>Q37</td><td>150 x 7
= 1050 (Total no of sweets)
1050 ÷ 0
= 175 (No. of goodie bags)
Raju had 175 goodie bags.</td><td>Q38</td><td>$58 - $43 = $15
Cost of 1 bag = $43 - $15 = $28
The cost of bag is $28</td></tr>
<tr><td>Q39</td><td>a) 100 ÷ 6 = 16 R4 (4 eggs left)
Most no. of cakes = 16
The most number of cakes he can bake is 16 cakes.

b) No. of eggs left = 4
No. of eggs needed to bake a cake = 6.
No. of eggs needed = 6 – 4 = 2
The baker would need 2 more eggs</td><td>Q40</td><td>a)
<table><tr><th>Figure</th><th>White beads</th><th>Grey breads</th><th>Total</th></tr><tr><td>5</td><td>5</td><td>6</td><td>11</td></tr></table>b) No of grey beads
= Figure No, + 1
= 10 + 1
= 11
c) No. of white beads = figure no.
Total no. of beads
= WB + GB
= 20 +20 + 1
= 41</td></tr>
</table>

END