METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

END-OF-YEAR EXAMINATION 2011
PRIMARY 3 MATHEMATICS
BOOKLET A

Total Time: 1 h 45 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: 11 October 2011

/40

This booklet consists of 9 printed pages including this page.

Section A

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

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1 $7\,305 = 7000 + 30 \times \square + 5$

(1) 1
(2) 10
(3) 3
(4) 100

2 What is the missing value in the box?

$$\begin{array}{r} 8\ 5\ \square\ 6 \\ -\ 5\ 9\ 8\ 7 \\ \hline 2\ 5\ 1\ 9 \end{array}$$

(1) 9
(2) 7
(3) 3
(4) 0

3 Complete the number pattern below.

2864, 3954, _____, 6134, 7 224

(1) 4 064
(2) 5 044
(3) 5 064
(4) 6 044

4 What is the **smallest odd number** that can be formed with the digits 3, 4, 5 and 7 with the digit 5 in the tens place?

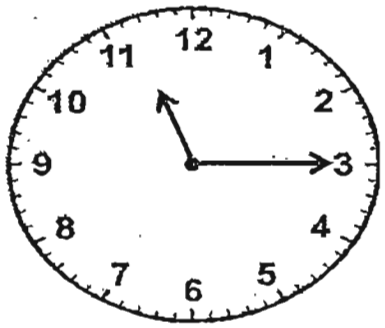
(1) 7 543
(2) 7 453
(3) 3 547
(4) 3 457

(Go on to the next page)

5 After Alicia had spent \$125 and Flora had spent \$194, both of them had the same amount of money left. If Alicia had \$500 at first, how much did Flora have at first?

(1) \$319
(2) \$375
(3) \$569
(4) \$694

6 The time on the clock is 25 minutes fast. What is the actual time?



(1) 11.25
(2) 11.40
(3) 10.50
(4) 10.45

7 Which of the following fractions is not equivalent to $\frac{2}{4}$?

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

(2) $\frac{3}{5}$

(3) $\frac{4}{8}$

(4) $\frac{5}{10}$

8 Which fish has the greatest mass?

A

1kg 300g

B

1 003g

C

1 303g

D

1kg 30g

(1) A
(2) B
(3) C
(4) D

9 The mass of a bag of rice is 800g. It is 5 times as heavy as a bag of sugar. What is the total mass of a bag of rice and a bag of sugar?

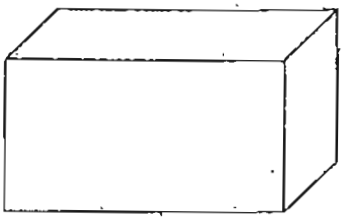
(1) 160g
(2) 960g
(3) 4000g
(4) 4800g

10 Nathan jogs round a 400-m track 4 times a week. What is the total distance he jogs in 2 weeks?

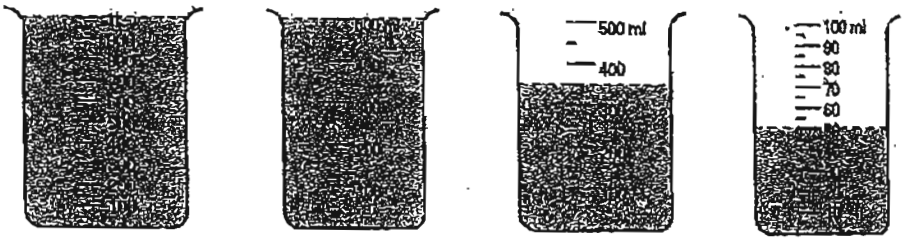
(1) 1 km 600 m
(2) 2 km 800 m
(3) 3 km 200 m
(4) 5 km 600 m

(Go on to the next page)

11 The four cylinders below show the amount of water the fish tank can hold. What is the capacity of the fish tank?



Fish Tank



(1) 2 ℓ
(2) 1 ℓ 950 mℓ
(3) 1 ℓ 900 mℓ
(4) 1 ℓ850 mℓ

12 Belinda took 1 hour 10 minutes to complete a walk-a-jog. Rita took 25 minutes less to complete the same walk-a-jog. How long did Rita take to complete the walk-a-jog?

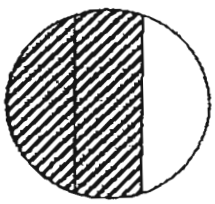
(1) 45 minutes
(2) 55 minutes
(3) 1 h 15 minutes
(4) 1 h 35 minutes

13 Wendy wanted to make drinks for her guests. She mixed 2 bottles of Ribena syrup with 8 cans of soda water. 1 bottle of Ribena contains 1ℓ 500 *mℓ* of syrup and 1 can contains 330 mℓ of soda water. What was the total amount of drinks made?

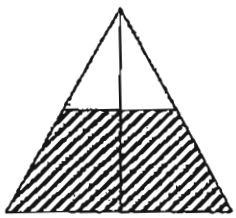
(1) 2 ℓ 640 mℓ
(2) 4 ℓ 140 mℓ
(3) 5 ℓ 400 mℓ
(4) 5 ℓ 640 mℓ

14 Which diagram shows that $\frac{2}{3}$ of it is shaded?

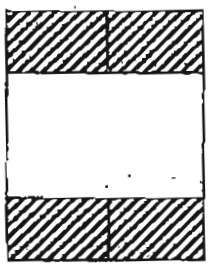
(1)



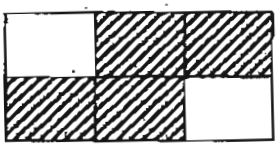
(2)



(3)



(4)



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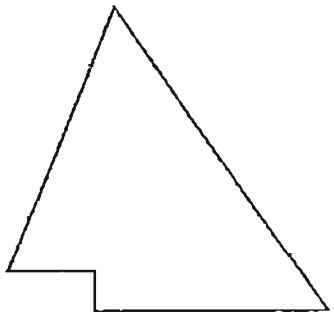
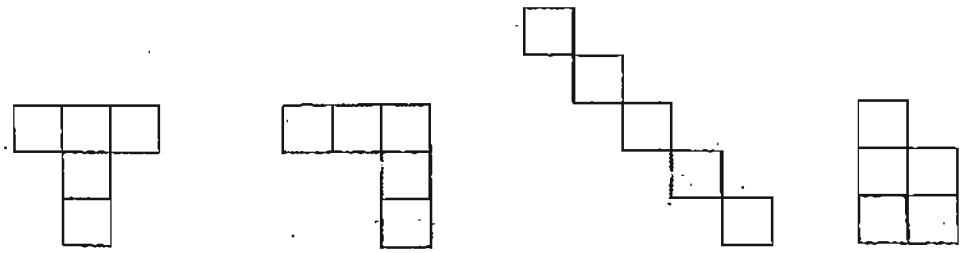
15 How many angles in the figure below are smaller than a right angle?



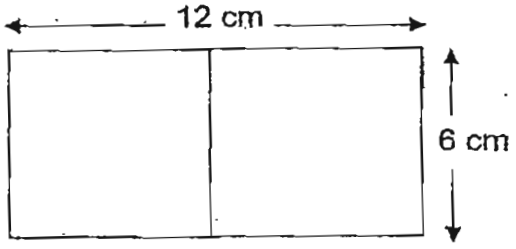
(1) 1
(2) 2
(3) 3
(4) 4

16 Which of the following figures below have the same perimeter?



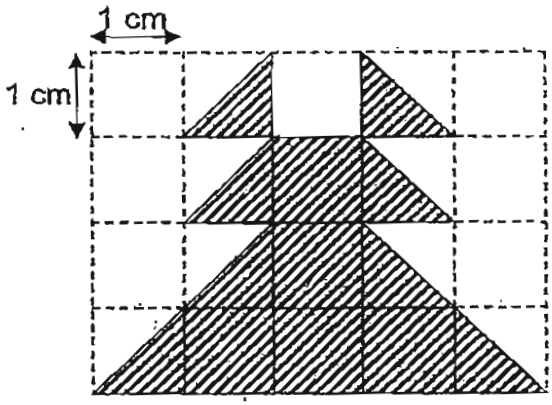
(1) A and C
(2) B and C
(3) C and D
(4) A and B

17 Judy has a rectangular piece of cardboard, 12 cm by 6 cm. She cut it into two halves to do her artwork. What is the perimeter of each half of the cardboard after it has been cut?



(1) 36 cm
(2) 24 cm
(3) 18 cm
(4) 12 cm

18 Jane shaded triangles and squares on the 1-cm grid square paper. What is the area of the shaded parts?



(1) 9 cm²
(2) 10 cm²
(3) 12 cm²
(4) 14 cm²

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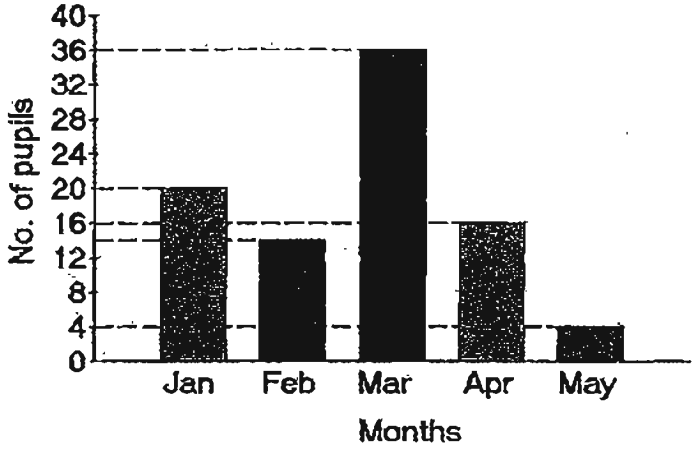
The bar graph below shows the birth months of the students in Fairyland Girls School. Study it and answer questions **19** and **20**.



19 How many **more** people were born in March than in February?

(1) 14
(2) 20
(3) 22
(4) 36

20 In which month was there four times as many students born than in the month of May?

(1) January
(2) February
(3) March
(4) April

(Go on to Booklet B)

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END-OF-YEAR EXAMINATION 2011
PRIMARY 3 MATHEMATICS
BOOKLET B

Total Time: 1 h 45 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: 11 October 2011

BOOKLET A	40
BOOKLET B	40
BOOKLET C	20
TOTAL	100

This booklet consists of 8 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)

21 Write 8 593 in words.

22 How many eighths are there in $2\frac{1}{4}$?

Ans: _____

23 In a row of 10 vases, Jane placed 3 flowers between every 2 vases. How many flowers did she place altogether?

Ans: _____

24 Arrange the following fractions starting from the greatest.

$$\frac{2}{5} \quad , \quad \frac{2}{9} \quad , \quad \frac{2}{7}$$

Ans: _____

(Go on to the next page)

25 Mrs Siva had 59 stickers. She wanted to give 9 stickers to those who scored above 85 marks in her Mathematics class but would need 13 stickers more. How many pupils scored above 85 marks?

Ans: _____

26 Sophia bought 6 identical pencils and 2 identical files for a total of $18. Each pencil costs $2. What is the cost of a file?

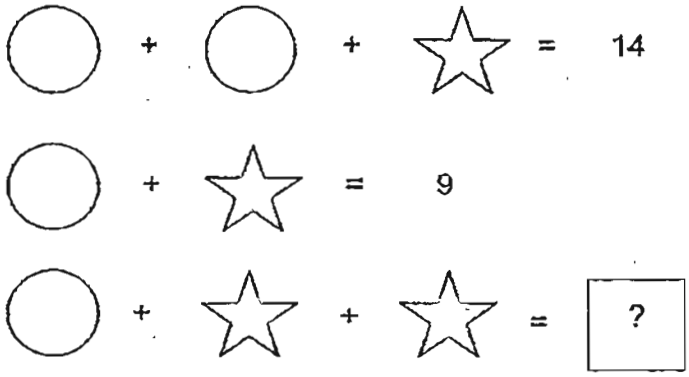
Ans: $_____

27 Stacey spent $\frac{1}{6}$ of her money on a purse and $\frac{7}{12}$ more money on a bag than on the purse. What fraction of her money did she spend?

Ans: _____

(Go on to the next page)

28



What is the missing number in the box?

Ans: _____

29 Sheila took 15 minutes to draw a picture of a cat. How long will she take to draw 10 cats?

Ans: _____ h _____ min

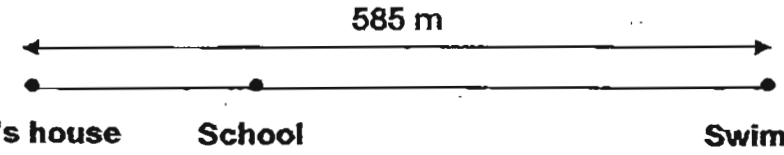
30 Josh is 152 cm tall. Tim is 40 cm shorter. What is their total height?

Ans: _____ m _____ cm

31 Karen bought a carpet measuring 3 m by 2 m. She placed the carpet in her living room which is 5 m long and 7 m wide. What is the area of her living room that is not covered by the carpet?

Ans: _____ m^2

32 The distance between Amy's house and the swimming pool is 3 times the distance from her house to the school. What is the distance between the school and the swimming pool?



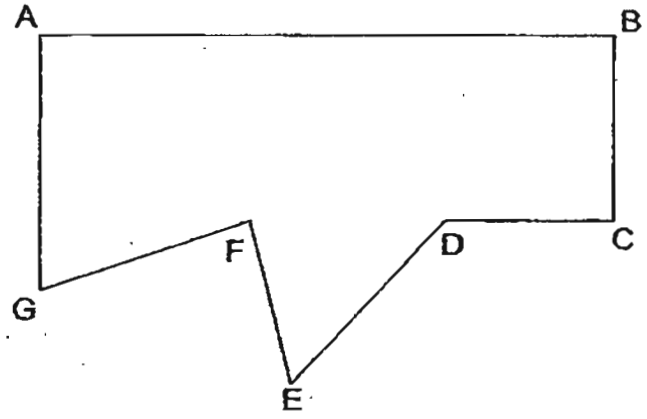
Ans: _____ m

33 Trisha and Anne started drawing at 2.15 p.m. Trisha took 20 minutes to complete her drawing while Anne took twice the amount of time to finish her drawing. At what time did Anne finish her drawing?

Ans: _____ p.m.

(Go on to the next page)

34 Name a pair of perpendicular lines in the figure below.



Ans: _____ ⊥ _____

35 Emily had $1 302 and Colin had $674. How much must Emily give to Colin so that each of them has the same amount of money?

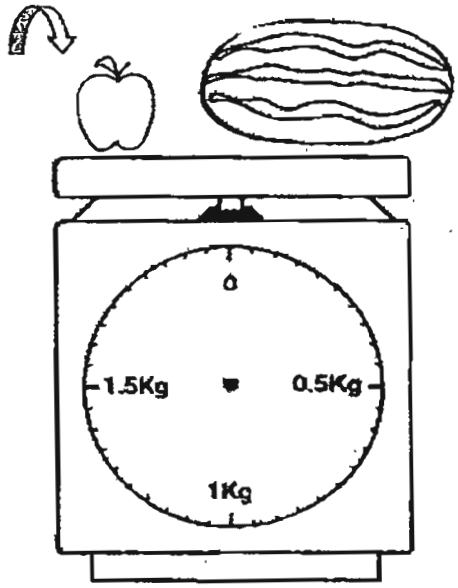
Ans: $_____

36 A school bus can take a maximum of 30 pupils. If there are 280 students going for an excursion, how many school buses must the teacher charter such that **all** the pupils can go for the trip?

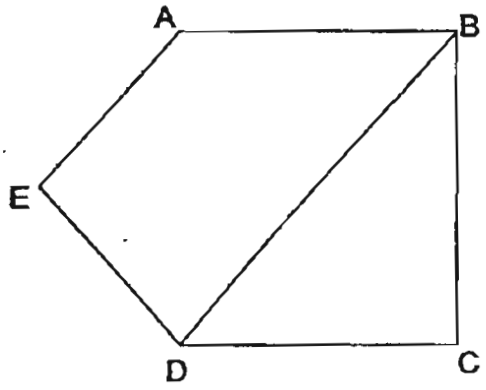
Ans: _____

(Go on to the next page)

37 The watermelon has a mass of 950 g. Draw the pointer to show the reading on the kitchen scale if an apple of a mass of 100g is added to the scale.

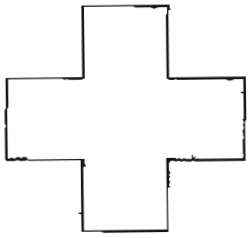


38 Name a pair of parallel lines in the figure below.



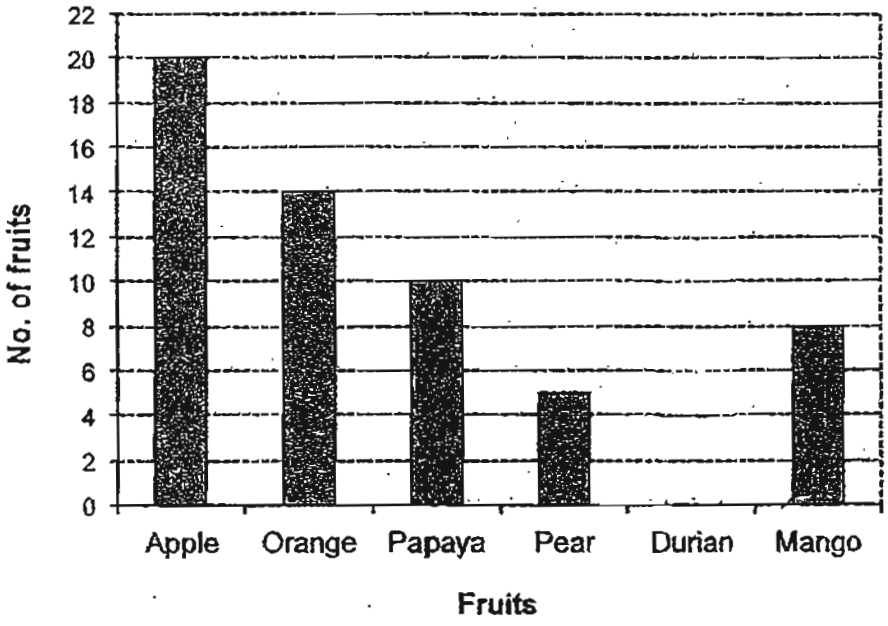
Ans: _____ // _____

39 How many right angles are there inside the figure below?



Ans: _____

40 The graph below shows the type of fruits sold on Monday.



The total number of fruits sold is 70. Use a ruler and draw in the number of durians sold in the graph above.

METHODIST GIRLS' SCHOOL (PRIMARY)

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PRIMARY 3 MATHEMATICS
BOOKLET C

Total Time: 1 h 45 minutes

INSTRUCTIONS TO CANDIDATES

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Answer all questions.

Name: _____ ( )

Class: Primary 3._____

Date: 11 October 2011

/20

This booklet consists of 4 printed pages including this page.

For questions **41** to **45**, show your working clearly 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 One book cost \$9. For every 10 books bought, 3 books were given free. How much would Tracy have to pay if she needed 26 such books?

Ans: _____ [4]

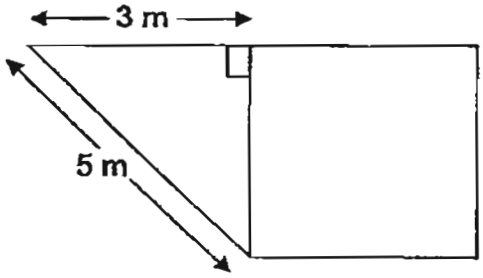
42 Rani has a ribbon that is 1 m long. She cuts it into 3 pieces, A, B and C. Ribbon A is $\frac{1}{3}$ m long. Ribbon B is $\frac{1}{6}$ m longer than Ribbon A. What is the length of Ribbon C?

Ans: _____ [4]

(Go on to the next page)

43 The figure below is made up of a triangle and a square. The perimeter of the triangle is 12 m.

(a) Find the perimeter of the figure.
(b) Find the area of the square.



Ans: (a) _____ [2]

(b) _____ [2]

44 A train left Town A at a certain time. It took 2 h 35 min to reach Town B. The train then took 1 h 45 min to travel from Town B to Town C.

(a) How much faster is it to travel from Town B to Town C than Town A to Town B?
(b) If the train reached Town B at 1.10 p.m., what time did it leave Town A?

Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

45 A chair has 4 legs. A stool has 3 legs. There are 64 legs altogether. If there are 2 more chairs than stools, how many chairs are there?

Ans: _____ [4]

End of Paper

Answer Ke

EXAM PAPER 2011

SCHOOL : MGS
SUBJECT : PRIMARY 3 MATHEAMATICS

TERM : SA2

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

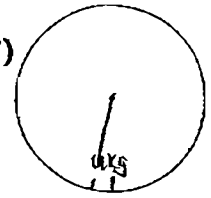
Q18	Q19	Q20
1	3	4

21)Eight thousand, five hundred and ninety-three **22)18** **23)27**

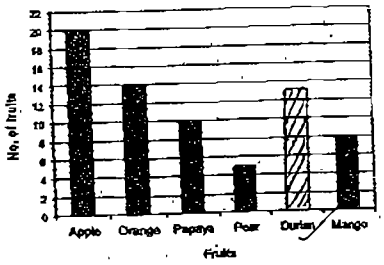
24)2/5, 2/7, 2/9 **25)8 pupils** **26)$3** **27)11/12** **28)13**

29)2h 30 min **30)2m 64cm** **31)29m2** **32)390m** **33)2.55p.m.**

34)AB⊥BC **35)$314** **36)10** **37)**



38)AB//CD **39)8** **40)**



41)10 x 9 = 90
90 + 90 = 180
Tracy would have to pay $180.

42)RA = 1/3 x2 = 2/6
RB = 2/6 + 1/6 = 3/6
RC = 3/6 + 2/6 = 5/6
6/6 – 5/6 = 1/6
Ribbon C is 1/6m long.

43)a)5 + 3 = 8
12 – 8 = 4
5+4+4 = 13
13 + 3 = 16
16 + 4 = 20
The perimeter of the figure is 20m
b)4 x 4 = 16
The area of the square is 16m2

44)a)2h 35min – 1h 45min = 50min
It is 50 min faster to travel from Town B to Town C than Town A to Town B.

44)b)It left Town A at 10.35am

45)64 − 8 = 56
56 ÷ 7 = 8
8 + 2 = 10
There are 10 chairs.