METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

MID-YEAR EXAMINATION 2015
PRIMARY 5
MATHEMATICS

PAPER 1
(BOOKLET A)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
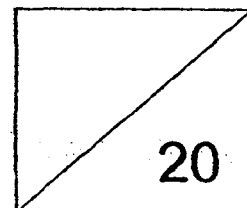Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.
The use of calculators is **NOT** allowed.

Name: _____ (   )

Class: Primary 5._____

Date: 12 May 2015

20

This booklet consists of 6 printed pages including this page.

Questions **1** to **10** carry 1 mark each. Questions **11** to **15** 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.   (20 marks)

---

1.   In 605.312, which digit is in the tenth place?

    (1)   1

    (2)   2

    (3)   3

    (4)   4

2.   What is the value of $30 - (10 - 8 \div 2) \times 3$?

    (1)   8

    (2)   12

    (3)   27

    (4)   87

3.   Express $40 + \dfrac{1}{4} + \dfrac{4}{1000}$ as a decimal.

    (1)   40.14

    (2)   40.104

    (3)   40.254

    (4)   40.29

4. How many grams are there in 8.03 kg?

   (1) 803 g

   (2) 8 003 g

   (3) 8 030 g

   (4) 80 300 g

5. $\frac{5}{7} \div 3$ has the same value as _____.

   (1) $\frac{5}{7} \times 3$

   (2) $\frac{7}{5} \times 3$

   (3) $\frac{5}{7} \times \frac{1}{3}$

   (4) $\frac{7}{5} \times \frac{1}{3}$

6. Melody is 6 years older than Brenda. Brenda is 11 years old now. What is their total age in 10 years' time?

   (1) 17

   (2) 27

   (3) 28

   (4) 48

7. Round off 3.499 to 2 decimal places.

    (1)   3.40

    (2)   3.49

    (3)   3.50

    (4)   3.59

8. Which one of the following is nearest to 1?

    (1) $\dfrac{3}{8}$

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

    (3) $\dfrac{3}{4}$

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

9. 5 girls share half a pie. What fraction of the pie did each girl get?

    (1) $\dfrac{1}{10}$

    (2) $\dfrac{1}{5}$

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

    (4)   10

10. A movie lasted $1\frac{3}{4}$ h. It ended at 18 40. At what time did the movie start?

(1) 16 05

(2) 16 55

(3) 17 05

(4) 17 25

11. The length of Rope A is 6 m. The total length of Rope B and Rope C is 6 m. What fraction of the total length is Rope A?

(1) $\frac{1}{18}$

(2) $\frac{1}{12}$

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

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

12. Siti has $\frac{6}{7}$ kg of sugar. She used $\frac{2}{3}$ of it to bake cookies. How much sugar had she left?

(1) $\frac{4}{21}$ kg

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

(3) $\frac{11}{21}$ kg

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

13. The product of two numbers is 3 600. One of the numbers is 20. What is the sum of the two numbers?

    (1)   200

    (2)   1 820

    (3)   3 600

    (4)   36 000

14. The total mass of three bags of rice is 8 kg 20 g. One bag of rice has a mass of 2 kg 60 g while the other two bags have exactly the same mass. What is the mass of each of the 2 bags of rice?

    (1)   2 530 g

    (2)   2 800 g

    (3)   2 980 g

    (4)   3 070 g

15. In the figure, AC = CE = EA. AB = BC = CD = DE.
What fraction of the triangle is shaded?
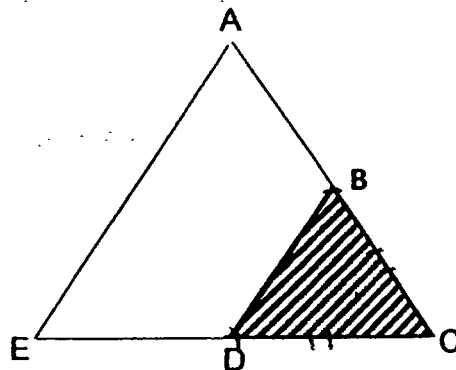
    (1) $\dfrac{1}{4}$

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

    (3) $\dfrac{2}{3}$

    (4) $\dfrac{3}{4}$

(Go on to the Booklet B)

METHODIST GIRLS' SCHOOL (PRIMARY)
Founded in 1887

MID-YEAR EXAMINATION 2015
PRIMARY 5
MATHEMATICS

PAPER 1
(BOOKLET B)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of calculators is **NOT** allowed.

Name: _____ (   )

Class: Primary 5. _____

Date: 12 May 2015

Parent's Signature : _____

Paper 1 Booklet A	/ 20
Paper 1 Booklet B	/ 20
Paper 2	/ 60
TOTAL	/ 100

This booklet consists of 7 printed pages including this page.

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.   (10 marks)

16.   87 645 = 800 hundreds + ☐ tens + 45 ones.

What is the missing number in the box?

Ans : _____

17.   Express 3.08 as a fraction in its simplest form.

Ans : _____

18.   A printer can print 150 posters every 10 minutes. How many posters can it print in an hour?

Ans : _____

19. What is the missing number in the box?

$880 \div \boxed{} = 0.88$

Ans : _____

20. What is the remainder when 2 988 is divided by 8?

Ans : _____

21. What is the length of the pencil in the figure below?

Ans : _____ cm

3
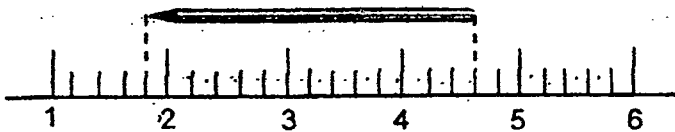
22. There are 110 children in the auditorium. $\frac{3}{5}$ of the children are girls.
How many boys are there in the auditorium?

Ans : _____

23. What is the value of $\frac{4}{5}$ x $\frac{15}{16}$?
Give your answer as a fraction in its simplest form.

Ans : _____

24. Express 50.6 cm in metres.

Ans : _____ m

4

25. Arrange $\frac{4}{5}$, $\frac{1}{2}$, $\frac{3}{10}$ and $\frac{13}{20}$ in ascending order.

Ans : _____ .

Questions **26** to **30** 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. (10 marks)

26. Mrs Lee bought 4 chairs and 1 table for $245. The table cost 3 times as much as a chair. How much did she pay for one table?

Ans : $ _____

27. Find the difference between 2.38 km and 6 km 5 m.

Ans : _____ km _____ m

28. Nicole is between 10 and 30 years old. This year, her age is a multiple of 4. Next year, her age is a multiple of 7. What is her age?

Ans : _____

6

29. Container A had 80.5 litres of water. The water was poured into 5 small containers equally. What was the amount of water in each small container? Give your answer in millilitres.

Ans : _____ ml

---

30. Li Yan had some money. She spent $\frac{1}{3}$ of it on a book and $\frac{2}{5}$ of it on a bag. The book and the bag cost $132 altogether. How much money did she have at first?

Ans : $_____

End of Booklet B

7

METHODIST GIRLS' SCHOOL (PRIMARY)
Founded in 1887

MID-YEAR EXAMINATION 2015
PRIMARY 5
MATHEMATICS

PAPER 2

Duration: 1h 40 min

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
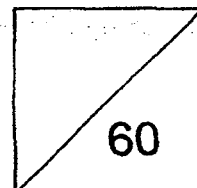Write your answers in this booklet.
The use of an approved calculator is expected, where appropriate.

Name: _____ ( )

Class: Primary 5._____

Date: 12 May 2015

Parent's Signature : _____

60

This booklet consists of 13 printed pages including this page.

Questions 1 to 5 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. **(10 marks)**

1. Water leaks from a tap at a rate of 15 mℓ per minute. At this rate, how much water will leak in 2 hours? Give your answer in litres.

Ans : _____ ℓ

2. A length of ribbon is 30 m 5 cm long. After using 17 m of it for a large parcel, the remaining ribbon was cut into 5 equal pieces. What was the length of each piece of ribbon? Give your answer in centimetres.

Ans : _____ cm

2

3. At a sale, books are sold in sets of 3. Each set costs $32.75. Cherie has $150.50, how many books can she buy at most?
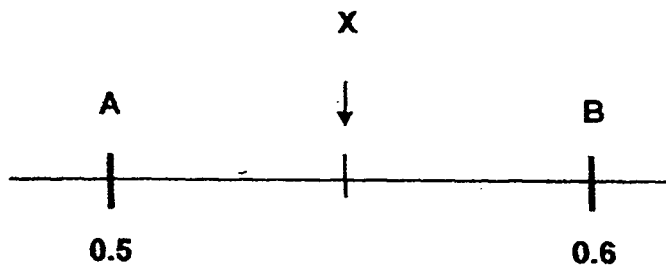
Ans.: _____

4. Arielle poured $\frac{3}{8}$ ℓ of orange juice equally into 2 cups. Find the total amount of orange juice in 3 such cups.

Ans : _____ ℓ

5. In the number line below, AX = XB. What is the value of X?

Ans : _____

3

For questions **6** to **18**, 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.   (50 marks)

Du
in th

6. The table below shows the number of pupils from School A and School B who participated in an Art Competition. $\frac{7}{8}$ of the total number of pupils were awarded prizes. How many pupils from School B were awarded prizes?
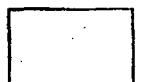
	School A	School B
No. of pupils	88	120
No. of pupils who were awarded prizes	70	?

Ans : _____ [3]

7. Audrey and Cynthia had some beads. Cynthia had 104 more beads than Audrey. After Cynthia gave away 218 beads, Audrey then had 4 times as many beads as Cynthia. Find the number of beads Cynthia had in the end.

Ans: _____ [3]

4

8. There were 30 children at a party. $\frac{3}{10}$ of them were boys. Each boy had 8 balloons. The total number of balloons the boys had was 12 fewer than the total number of balloons the girls had.

   (a) How many balloons did all the boys have?

   (b) How many balloons did each girl have?

Ans : (a) _____ [1]

(b) _____ [2]

9. Ahmad wanted to buy a digital book. He saved $\frac{2}{7}$ of the cost of the digital book in the first week. In the second week, he saved $56 less than the amount he saved in the first week. He managed to save the remaining $233 in the third week. How much did the digital book cost?

Ans : _____ [3]

10. Mrs Muthu decided to take her class to the museum. The ticket prices are as shown in the table below.

1 Adult Ticket	$25
1 Child Ticket	$12
Special price for every 10 Child Tickets	$100

Mrs Muthu bought tickets for 2 adults and 39 children. What would be the least amount that Mrs Muthu would need to pay?

Ans _____ [3]

11. The total capacity of 2 similar jugs is the same as the total capacity of 5 similar cups. 20.46 l of water is needed to fill up 4 jugs and 12 cups. What is the capacity of one cup? Give your answer in ml.

Ans : _____ [4]

12. There are 36 pupils in a class. Each boy is given 3 stamps and each girl is given 5 more stamps than each boy. The total number of stamps the girls received is 46 more than the total number of stamps the boys received. How many girls are there in the class?

Ans : _____ [4]

13. At a stationery shop, there were a total of 952 pens, rulers and erasers. There were 5 times as many pens as rulers. There were twice as many pens as eraser.

    (a) How many pens were there?

    (b) The shop received $420 from the sale of all the ~~pens~~ erasers.

        All erasers were sold at the same price. What was the cost of one eraser?

Ans: (a) _____ [2]

(b) _____ [2]

14. Mr Chan has \$5 280. He spent $\frac{3}{4}$ of it on a holiday trip and gave $\frac{1}{3}$ of the remainder equally to his 2 children. He saved the rest of his money.
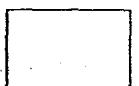
(a) How much money did each of his children receive?

(b) How much money did Mr Chan save?

Ans : (a) _____ [2]

(b) _____ [2]

9

15. Esther went to the post office to send some letters to her friends in ~~India~~ Indonesia and Japan. The postage rates to the two countries are shown below.

	Destination	
Mass up to	Indonesia	Japan
First 20g	$0.70	$1.30
Every additional 10g or part thereof	$0.25	$0.35

(a) She sent a letter weighing 32g to Indonesia. How much did she pay for the postage?

(b) She paid $2.35 for the postage of letter to Japan. What is the least possible mass of the letter? Give your answer as a whole number.

Ans: (a) _____ [2]

(b) _____ [2]
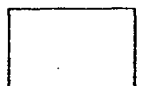
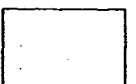16. There were some $2 and $10 notes. These notes amounted to $214. There were 11 more $2 notes than $10 notes.

   (a) How many $2 notes are there?

   (b) What is the difference in amount between the $2 notes and $10 notes?

Ans: (a) _____ [3]

   (b) _____ [2]

17. Ahmad spent $\frac{1}{6}$ of his money on a pair of shoes and $\frac{1}{2}$ of the remainder on 2 headphones. After that, his mother gave him $1292. Now Ahmad has twice of his original amount of money.

(a) How much money did he have at first?

(b) Both headphones were sold at the same price. How much money did he spend on each headphone?

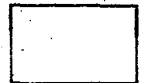Ans : (a) _____ [3]

(b) _____ [2]

18. There were 17.9 *l* of water in a basin and $1\frac{7}{10}$ *l* of water in a pail.

Eng Seng poured in an equal amount of water into each container. Now the amount of water in the basin is 4 times that in a pail. How much water did Eng Seng pour into each container? Give your answer in litres and millilitres.

Do not write in this space

Ans: _____ [5]

End of Paper 2

13

EXAM PAPER 2015
LEVEL   : PRIMARY 5
SCHOOL   : METHODIST GIRLS SCHOOL (PRIMARY) SCHOOL
SUBJECT : MATH
TERM   : SA1

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

Q16. ANS : 760

Q17. ANS : $3\frac{2}{25}$

$3\frac{8}{100} = 3\frac{4}{50} = 3\frac{2}{25}$

Q18. ANS : 900 posters
10 min ➔ 150 (x 6)
60min ➔ 900

Q19. ANS : 1000
$880 \div 1000 = 0.88$

Q20. ANS : 4
$2988 \div 8 = 373 \ r \ 4$

Q21. ANS : 2.8cm
$6 - 5 = 1$
5 gaps ➔ 1
1 gap ➔ $1 \div 5 = 0.2$
$4.6 - 1.8 = 2.8$

Q22. ANS : 44 boys
G ➔ $\frac{3}{5} \ x \ 110 = 66$
$110 - 66 = 44$

Q23. ANS : ¾
$\frac{4}{5} \ x \frac{15}{16} = \frac{3}{4}$

Q24. ANS : 0.506M
$50.6 \div 100 = 0.506$

Q25. ANS : $\frac{3}{10}$, $\frac{1}{2}$, $\frac{13}{20}$, $\frac{4}{5}$

$\frac{4}{5} = \frac{16}{20}$, $\frac{1}{2} = \frac{10}{20}$

$\frac{3}{10} = \frac{6}{20}$

$\frac{6}{20}$, $\frac{10}{20}$, $\frac{13}{20}$, $\frac{16}{20}$

$\frac{3}{10}$, $\frac{1}{2}$, $\frac{13}{20}$, $\frac{4}{5}$

Q26. ANS : 4105
4U + 3U = 7U
7U ➜ 245
IU ➜ 245 ÷ 7 = 35
T ➜ 3U
3U ➜ 35 X 3 = 105

Q27. ANS : 3km 625m
6km 5m = 6.005km
6.005km − 2.38km = 3.625km
3.625km = 3km625m

Q28. ANS : 20 years old
Multiples of 4 – 12,16,20,24,28
    + 1
13,17,21,25,29
Multiples of 7 - 14,21,28
21 – 1 = 20

Q29. ANS : 16100ml
80.5litre ÷ 5 = 16.1litre
16.1litre = 16100ml

Q30. ANS : $180
$\frac{1}{3} + \frac{2}{5} = \frac{5}{15} + \frac{6}{15} = \frac{11}{15}$
$\frac{11}{15}$ ➜ 132
$\frac{1}{15}$ ➜ 132 ÷ 11 = 12
12 X 15 = 180

PAPER 2

Q1. ANS : 1.8LITRE
2hrs ➜ 120min (60 x 2)
15 x 120 = 1800
1800ml = 1.8litre

Q2. ANS : 261cm
30m 5cm = 30.05m
30.05m − 17m = 13.05m
13.05m ÷ 5 = 2.61m
2.61m = 261cm

Q3. ANS : 12 books
150.50 ÷ 32.75 = 4.595
4 x 3 = 12

Q4. ANS : $\frac{9}{16}$ litre
1 cup ➔ $\frac{3}{8}$ ÷ 2 = $\frac{3}{16}$
$\frac{3}{16}$ x 3 = $\frac{9}{16}$

Q5. ANS : 0.55
0.6 − 0.5 = 0.1
0.1 ÷ 2 = 0.05
0.6 − 0.05 = 0.55

Q6. ANS : 112 pupils
88 + 120 = 208
A P ➔ $\frac{7}{8}$ x 208 = 182
182 − 70 = 112

Q7. ANS : 38 beads
218 − 104 = 114
4U − 1U = 3U
3U ➔ 114
1U ➔ 114 ÷ 3 = 38

Q8. ANS a : 72 balloons
B ➔ $\frac{3}{10}$ x 30 = 9
9 x 8 = 72

Q8b. ANS : 4 balloons
Total balloons (G) ➔ 72 + 12 = 84
G ➔ 30 − 9 = 21
84 ÷ 21 = 4

Q9. ANS : $413
233 − 56 = 177
$\frac{3}{7}$ ➔ 177
$\frac{1}{7}$ ➔ 177 ÷ 3 = 59
$\frac{7}{7}$ ➔ 59 x 7 = 413

Q10. ANS : $458
A → 25 x 2 = 50
39 ÷ 10 = 3.9
12 x 9 = 108
3 x 100 = 300
300 + 108 +50 = 458

Q11. ANS : 930ml
2J → 5C
4J → 10C
10C + 12C =22C
22C →20.45
1C → 20.46 ÷ 22 = 0.93
0.93LITRE = 930ML.

Q12. ANS : 14 girls
Assume all are boys
Total stamps collected → 36 x 3 = 108
Actual stamps collected → 108 + 46 = 154
Number of girls → 154 ÷ (8+3) = 14

Q13. ANS : a) 560 pens   Q13b) ANS : $1.50
P   :   R   :   E
10 :   2   :   5 (17U)

17U → 952
1U → 952 ÷ 17 = 56

a) 56 x 10 = 560

b) No. of erasers → 56 x 5 = 280
Cost of 1 eraser → 420 ÷ 280 = 1.50

Q14a. ANS : $220   Q14b. $880
HT   ¾ x 5280 = 3960
¼   5280 – 3960 = 1320
2C ⅓ X 1320 = 440
(a) 440 ÷ 2 = 220
(b) 1320 – 440 =880

Q15a. ANS : $1.20   Q15b. ANS : 41g
a.) 20 + 10 + 2 = 32
$0.70 +$0.25 +$0.25 = $1.20

b) First 20g →   1.30
2.35 – 1.30 = 1.05
1.05 ÷ 0.35 = 3
20 + 10 + 10 +1 = 41

Q16a. ANS: 27 $2 notes   Q16b. ANS : $106
Excess → 11 x 2 = 22
2U → $214 – 22= 192
1 set → 10 + 2 = 12
1U   192 ÷ 12 = 16
(G) 16 + 11 = 27

Value of $2 notes → 27 x 2 = 54
Value $10 → 16 x 10 = 160

c) 160 – 54 = 106

Q17a. ANS : $816   Q17b. ANS : $170
(a)
Shoes → 2U
2HP → 5U
24 – 5 = 19
1U → 1292 ÷ 19 = 68
24 ÷ 2 = 12
TOTAL → 68 X 12 = 816

(b)
68 x 5 = 340
340 ÷ 2 = 170

Q18. ANS : 3 litre 700ml
$1\frac{7}{10} = \frac{17}{10} = 1.7$
4U – 1U = 3U
3U → 17.9 – 1.7 = 16.2
1U → 16.2 ÷ 3 = 5.4
5.4 X 4 = 21.6
21.6 – 17.9 = 3.7
3.7litre = 3 litre 700ml

THE END