

METHODIST GIRLS' SCHOOL

Founded in 1887



PRIMARY 5 MID-YEAR EXAMINATION 2013 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: 14 May 2013

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 $2\,020\,000 \div \square = 2020 \times 10$

- (1) 10
- (2) 100
- (3) 1000
- (4) 10 000

2 $500\,000 + 5000 + 50 + 5 = \square$

- (1) 505 055
- (2) 505 505
- (3) 550 055
- (4) 550 505

3 What is the sum of 23 tenths and 45 hundredths?

- (1) 0.28
- (2) 0.68
- (3) 2.75
- (4) 4.73

(Go on to the next page)

4 Which number when rounded to the nearest tenth gives **10.1** as the answer?

- (1) 10.15
- (2) 10.05
- (3) 9.95
- (4) 9.85

5 A kilogram of prawns cost \$14. What is the cost of $2\frac{1}{4}$ kg of prawns?

- (1) \$31.50
- (2) \$35.00
- (3) \$38.50
- (4) \$42.00

6 Express $3\frac{4}{5}$ as a decimal.

- (1) 3.08
- (2) 3.45
- (3) 3.4
- (4) 3.8

7 Divide 34 by 18. Round off your answer to 2 decimal places.

- (1) 0.52
- (2) 0.53
- (3) 1.88
- (4) 1.89

(Go on to the next page)

8 What is the missing number in the box?

$$4 : 6 = 6 : \boxed{}$$

- (1) 12
- (2) 10
- (3) 9
- (4) 4

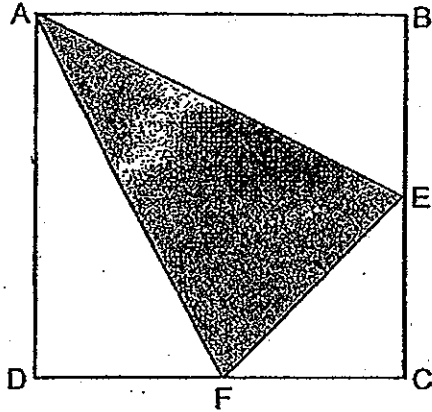
9 How many sixths are there in $2\frac{1}{3}$?

- (1) 6
- (2) 7
- (3) 13
- (4) 14

10 8 boys share 5 pizzas. What fraction of a pizza did each boy get?

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

- 11 ABCD is a square, $AB = 8$ cm, $BE = EC$, $CF = FD$.
What is the ratio of the shaded part to the unshaded part?



- (1) 2 : 5
(2) 3 : 8
(3) 3 : 5
(4) 8 : 3
- 12 Mrs Tan earned \$2 000. She used $\frac{1}{4}$ of her salary on food, $\frac{1}{5}$ of the remaining salary on transport and saved the rest. How much money did she save?

- (1) \$800
(2) \$900
(3) \$1100
(4) \$1200

(Go on to the next page)

13 $39 \times 6 + \square \times 6 = 420$

- (1) 3
- (2) 30
- (3) 31
- (4) 381

14 Multiply the sum of 8.92 and 4.67 by 9:

- (1) 13.59
- (2) 50.95
- (3) 84.95
- (4) 122.31

15 The ratio of the number of boys to the number of girls at a party was 4 : 3 at first. 9 boys left and the number of girls remaining at the party was 24. How many boys remained till the end of the party?

- (1) 23
- (2) 42
- (3) 47
- (4) 56

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PRIMARY 5 MID-YEAR EXAMINATION 2013 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: 14 May 2013

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. Questions 26 to 30 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(20 marks)

- 16 A 5-digit number when rounded off to the nearest thousand is 23000.
What is the greatest possible number?

Ans: _____

- 17 Use all the digits given to form the smallest 6-digit even number.

3 7 0 2 6 5

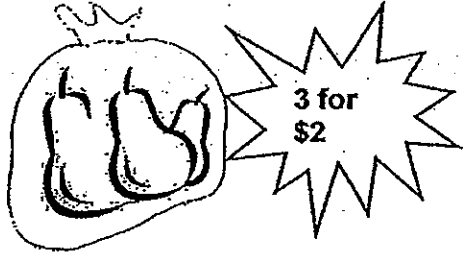
Ans: _____

- 18 If I subtract 25 hundredths from 1, the answer is

Ans: _____

(Go on to the next page)

- 19 Pears are sold in bags of 3. Mrs Raja bought 12 pears.
How much did she pay for the pears?

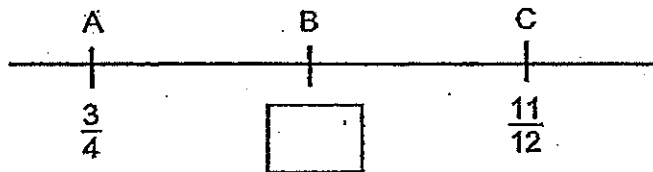


Ans: \$ _____

- 20 Susan used 0.35 m of ribbon to tie a box.
How much ribbon did she use to tie 7 such boxes?

Ans: _____ m

- 21 In the number line shown below, A represents $\frac{3}{4}$ and C represents $\frac{11}{12}$.
B is the midpoint of A and C. What is the missing fraction represented by B?



Ans: _____

(Go on to the next page)

- 22 Find the value of $1\frac{4}{5} \div 6$.

Express your answer as a decimal.

Ans: _____

- 23 Arrange the following fractions in order, beginning with the smallest fraction.

$$\frac{3}{5}, \frac{5}{9}, \frac{2}{3}$$

Ans: _____

- 24 The ratio of John's savings to Peter's savings is 3 : 7
Find their total savings if Peter saves \$630.

Ans: \$ _____

- 25 Find the value of $320 \div 8 \times 5 - (46 + 64)$.

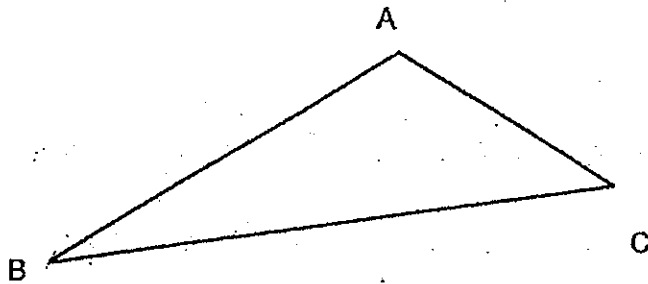
Ans: _____

(Go on to the next page)

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

- 26 In the triangle shown below, AC is the base. Draw the height and label it 'h'.



- 27 The mass of a container with 50 sweets is 550 g.
The mass of the same container with 30 sweets is 390 g.
What is the mass of the empty container?

Ans: _____ g

(Go on to the next page)

- 28 Mei Ying spent $\frac{1}{3}$ of her money on a watch and $\frac{1}{4}$ of her money on a dress. She then found out that she had \$250 left. How much money did she have at first?

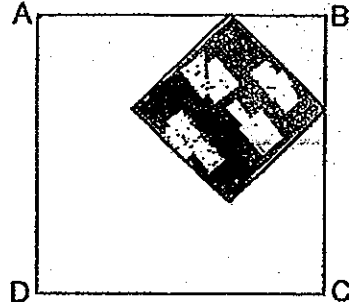
Ans: \$ _____

- 29 A pile of 30 books is 100 cm high. 10 books have a thickness of 2.5 cm each and 10 books have a thickness of 3 cm each. If the remaining books have the same thickness each, what is the thickness of each book?

Ans: _____ cm

(Go on to the next page)

- 30 The perimeter of square ABCD is 36 cm. Find the area of the shaded part.



Ans: _____ cm^2

End of Booklet B

METHODIST GIRLS' SCHOOL

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PRIMARY 5 MID-YEAR EXAMINATION 2013 MATHEMATICS

PAPER 2

Total Time: 1 h 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.

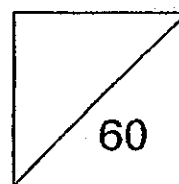
Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

Name: _____ ()

Class: Primary 5. _____

Date: 14 May 2013



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 One eraser and one pen cost \$1.40 altogether.
Cynthia bought 2 erasers and 4 pens for \$5.
How much did one eraser cost, in cents?

Ans: _____ ¢

- 2 Mrs Wong baked 80 cupcakes for a funfair.
She sold $\frac{4}{5}$ of the cupcakes at \$3.50 each.
How much money did she collect from the sale?

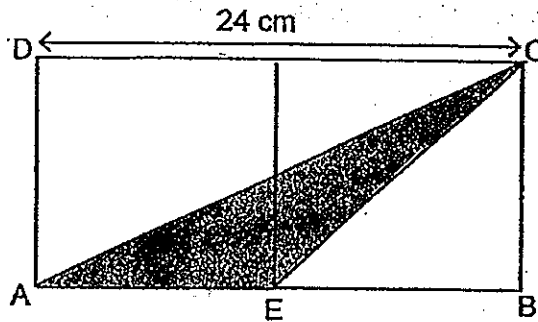
Ans: \$ _____

- 3 Alice saves 50 cents a day.
For every \$2.50 that she saves, her mother will give her 50 cents.
How long will Alice take to save \$12?

Ans: _____

(Go on to the next page)

- 4 In the figure below, ABCD is a rectangle made up of 2 identical squares. CD is 24 cm and E is the midpoint of AB. Find the area of the shaded triangle.



Ans: _____ cm²

- 5 Mr Tan had 27 kg of rice. After filling 12 containers with the same amount of rice each, he had 16.5 kg of rice left. How much rice was there in each container?

Ans: _____ kg

(Go on to the next page)

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)

- 6 The parking fees at Floral Shopping Mall from 7 a.m. to 12 midnight are as follows:

First hour	\$2
Every additional half hour	\$1

- (a) How much must Mrs Lee pay if she parks her car there from 2.15 p.m. to 5.45 p.m.?
- (b) Mrs Lee drove into the car park at 10.40 a.m. She then realized that she had only \$4 with her. What is the maximum number of hours that she can park her car?

Ans: (a) _____ [2]

(b) _____ [1]

(Go on to the next page)

- 7 Mr Tan spent $\frac{3}{8}$ of his salary on a television set and $\frac{1}{6}$ of the remaining salary on a washing machine. He had \$2300 left. How much did the television set cost?

Ans: _____ [3]

- 8 Majorie had a box of beads. She used 285 of the beads to make some necklaces and $\frac{1}{5}$ of the remaining beads to make some bracelets. In the end, she found that she had $\frac{1}{2}$ of the original number of beads left. How many beads did she have at first?

Ans: _____ [3]

(Go on to the next page)

- 9 The ratio of the number of boys to the number of girls in a camp is 4 : 7. The camp fee for each child is \$45. There are 112 boys in the camp. Find the total amount of fees paid by all the children.

Ans: _____ [3]

- 10 Siti and Aslinda had 198 stickers altogether.
Siti gave away $\frac{1}{2}$ of her stickers and Aslinda gave away $\frac{3}{5}$ of hers.
In the end, they had an equal number of stickers left.
How many stickers did they give away altogether?

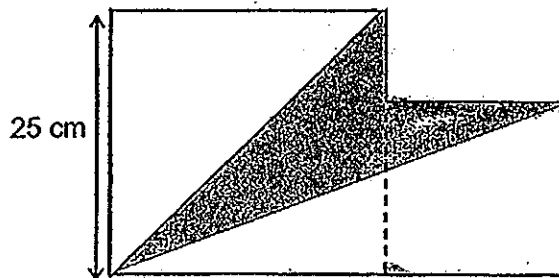
Ans: _____ [3]

(Go on to the next page)

- 11 Megan can buy 10 apples and 16 oranges with \$12. She can buy 24 oranges with the same amount of money. If she spends all her money on apples, how many apples can she buy with \$70?

Ans: _____ [3]

- 12 The figure below is made up of 2 squares. The perimeter is 134 cm. Find the area of the shaded part.



Ans: _____ [4]

(Go on to the next page)

13 Mr Tan gave \$5800 to his wife and 3 children. His wife received \$1600 more than the first child. The second and third child each received half as much money as the first child.

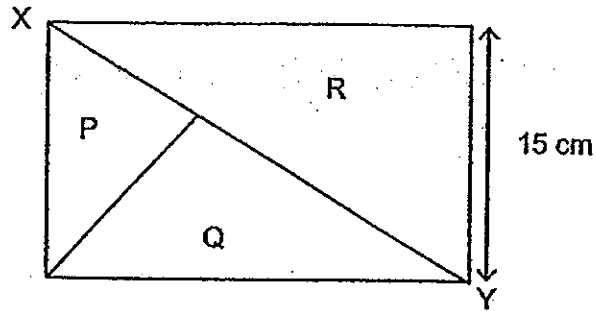
- (a) How much money did the first child receive?
- (b) What is the ratio of the amount of money received by his wife to the amount of money received by his 3 children?

Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

- 14 The figure below shows a rectangle that is divided into 3 parts P, Q and R.



The line XY divides the rectangle into 2 equal parts.
The ratio of Area P to Area Q is 2 : 3. Area Q is 117 cm^2 .
The breadth of the rectangle is 15 cm.
What is the length of the rectangle?

Ans: _____ [4]

(Go on to the next page)

15 Nicole had 4 times as many beads as Audrey. After they each bought an equal number of beads, Audrey had 162 beads and Nicole had three times as many beads as Audrey.

- (a) How many beads did Nicole have at first?
- (b) How many beads did each of them buy?

Ans: (a) _____ [3]

(b) _____ [2]

(Go on to the next page)

- 16 The price of tickets for a concert is as shown in the table below.

	Price per ticket
Pupil	\$9.50
Teacher	\$15

A total of 420 tickets were sold. $\frac{1}{6}$ of the tickets sold were bought by teachers. Find the total amount of money collected from the sale of tickets. Round off your answer to the nearest hundred dollars.

Ans: _____ [5]

(Go on to the next page)

17. A tailor had some cloth. She used $\frac{2}{9}$ of the cloth to make dresses and $\frac{3}{14}$ of the remaining cloth to make trousers. She bought another 126 m of cloth and then found out that she had as much cloth as she had at first. Find the length of cloth the tailor had at first.

Ans: _____ [5]

(Go on to the next page)

18. Mrs Lim had 3 containers of flour.
The ratio of the mass of flour in Container A to the mass of flour in Container B to the mass of flour in Container C is 2 : 5 : 8.
Container B contained 600 g of flour.
Mrs Lim used $\frac{4}{5}$ of the total amount of flour to make pineapple tarts.
What is the mass of flour left?

Ans: _____ [5]

End of Paper

ANSWER SHEET

EXAM PAPER 2013

SCHOOL : MGS PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATHEMATICS
TERM : SA1

Booklet A

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

16. 23499

17. 203576

18. 0.75

19. 8

20. 2.45

21. $\frac{5}{6}$

22. 0.3

23. $\frac{5}{9}$, $\frac{3}{5}$, $\frac{2}{3}$

24. 900

25. 90

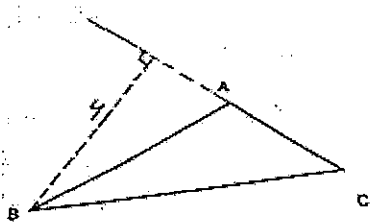
26.

27. 150

28. 600

29. 4.5

30. 18



Paper 2

1. $1.4 \times 2 = 2.80$

$5 - 2.80 = 2.20$

$2.2 \div 2 = 1.1$

$1.4 - 1.1 = 0.3$

2. $80 \div 5 = 16$

$16 \times 4 = 64$

$$64 \times 3.50 = 224$$

3. $3u$ ----- 5days

$$12u$$
 ---- 20

4. $24 \div 2 = 12$

$$\frac{1}{2} \times 12 \times 12 = 72$$

5. $27 - 16.5 = 10.5$

$$10.5 \div 12 = 0.875$$

6. A. $2 + 1 + 1 + 1 + 1 + 1 = 7$

B. 2

7. $2300 \div 5 = 460$

$$460 \times 6 = 2760$$

$$2760 \div 5 = 552$$

$$552 \times 3 = 1656$$

8. $285 \div 3 = 95$

$$95 \times 8 = 760$$

9. $112 \div 4 = 28$

$$28 \times 11 = 308$$

$$308 \times 45 = 13860$$

10. $198 \div 9 = 22$

$$22 \times 5 = 110$$

11. $24 - 16 = 8$

8 Orange = 10 Apples

$$12 \div 24 = 0.5$$

$$0.5 \times 8 = 4$$

$$4 \div 10 = 0.4$$

$$70 \div 0.4 = 175$$

12. $134 - 100 = 34$

$$34 \div 2 = 17$$

$$\frac{1}{2} \times 8 \times 25 + \frac{1}{2} \times 17 \times 17 = 244.50$$

13. $5800 - 1600 = 4200$

$$4200 \div 6 = 700$$

$$700 \times 2 = 1400$$

$$1400 + 1600 = 3000$$

$$700 \times 4 = 2800$$

3000:2800

15:14

14. $117 \div 3 = 39$

$39 \times 2 = 78$

$78 + 117 = 195$

$195 \times 2 = 390$

$390 \div 15 = 26$

15. A. $162 \times 2 = 324$

$162 \times 3 = 486$

B. $324 \div 3 = 108$

$108 \times 4 = 432$

$486 - 432 = 54$

16. $420 \div 6 = 70$

$70 \times 15 = 1050$

$70 \times 5 = 350$

$350 \times 9.50 = 3325$

$3325 + 1050 = 4375 \text{ --- } 4400$

17. $126 \div 7 = 18$

$18 \times 18 = 324$

18. $600 \div 5 = 120$

$120 \times 15 = 1800$

$1800 \div 5 = 360$

