

# METHODIST GIRLS' SCHOOL

Founded in 1887



## END-OF-YEAR EXAMINATION 2012 PRIMARY 4 MATHEMATICS

(BOOKLET A)

Total Time: 1 h 35 min

### 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 4. \_\_\_\_\_

Date: 9 October 2012

This booklet consists of 8 printed pages including this page.

**Section A**

Questions 1 to 17 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. (34 marks)

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1 In the number 56 280, which digit is in the thousands place?

- (1) 5
- (2) 2
- (3) 6
- (4) 8

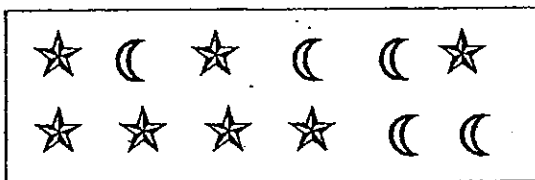
2 Which of the following is a multiple of both 6 and 8?

- (1) 12
- (2) 14
- (3) 16
- (4) 24

3 The digit 5 in 6.157 stands for 5 \_\_\_\_\_.

- (1) ones
- (2) tens
- (3) tenths
- (4) hundredths

4 What fraction of the shapes in the box are ★ ?



- (1)  $\frac{5}{7}$
- (2)  $\frac{7}{5}$
- (3)  $\frac{5}{12}$
- (4)  $\frac{7}{12}$

- 5 Arrange the following fractions from the greatest to the smallest.

$$\frac{1}{4}, \frac{4}{6}, \frac{7}{12}$$

(1)  $\frac{4}{6}, \frac{1}{4}, \frac{7}{12}$

(2)  $\frac{7}{12}, \frac{4}{6}, \frac{1}{4}$

(3)  $\frac{4}{6}, \frac{7}{12}, \frac{1}{4}$

(4)  $\frac{1}{4}, \frac{4}{6}, \frac{7}{12}$

- 6 Write  $7\frac{2}{25}$  as a decimal.

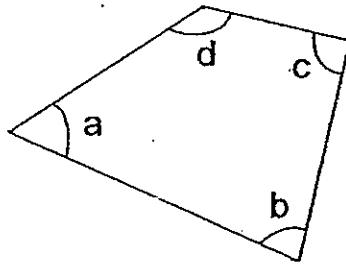
(1) 7.02

(2) 7.04

(3) 7.06

(4) 7.08

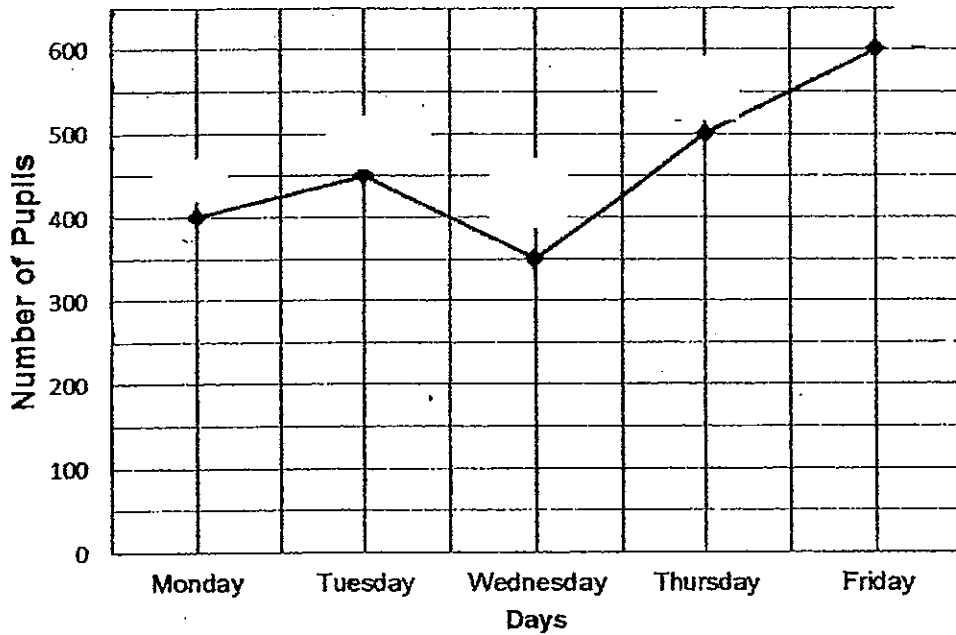
- 7 In the figure below, which angle is a right angle?



- (1) a  
(2) b  
(3) c  
(4) d

Study the graph carefully and answer questions 8 and 9.

The graph below shows the number of pupils visiting the school library in a week.



8 What is the difference in the number of pupils visiting the library between Wednesday and Friday?

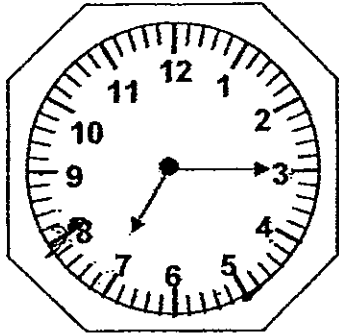
- (1) 100
- (2) 250
- (3) 300
- (4) 350

9 Which day has 150 fewer pupils visiting the library than Thursday?

- (1) Monday
- (2) Tuesday
- (3) Wednesday
- (4) Friday

(Go on to the next page)

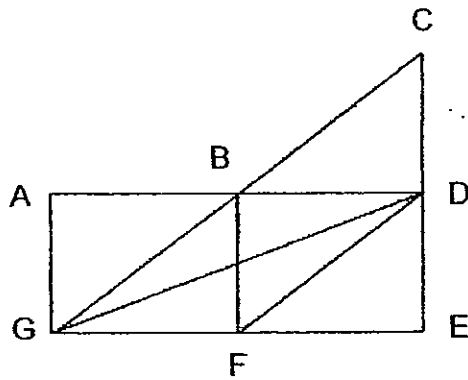
- 10 The clock below shows the time Harry left his house for the library in the evening.



Harry took 25 minutes to walk to the library.  
He was in the library for 1 h 45 min.  
What time did he leave the library?

- 1) 07 40
- 2) 08 40
- 3) 20 25
- 4) 21 25

- 11 Look at the figure below. Which line is parallel to BC?



- 1) AB
- 2) BF
- 3) FD
- 4) DG

- 12 What is the value of  $5.4 - 1.74$ ?  
Round your answer to one decimal place.

- 1) 3.6
- 2) 3.7
- 3) 7.1
- 4) 7.2

- 13  $7.06 \times 6 =$  \_\_\_\_\_

- 1) 42.36
- 2) 42.96
- 3) 43.36
- 4) 43.86

- 14 Shi Yun was asked to draw a figure made up of three rectangles, four triangles and two circles. She drew the following figures.

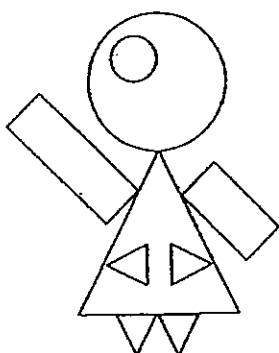


Figure 1

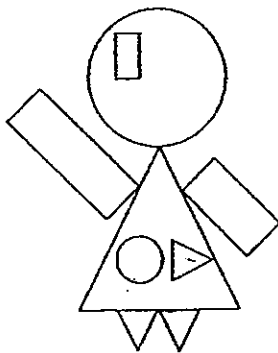


Figure 2

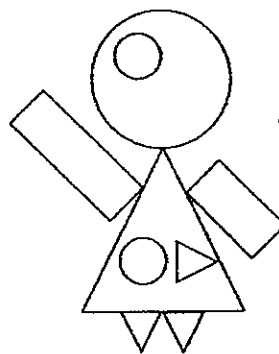


Figure 3

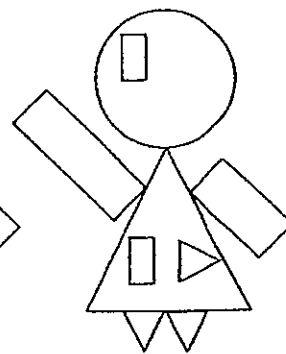


Figure 4

Which of the figures is correctly drawn?

- 1) Figure 1
- 2) Figure 2
- 3) Figure 3
- 4) Figure 4

- 15 Study the figures below.  
For each figure, the dotted line represents its line of symmetry.

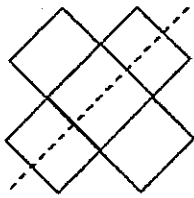


Figure 1

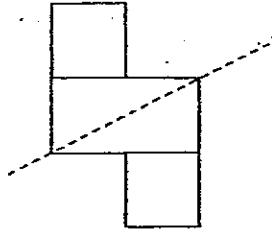


Figure 2

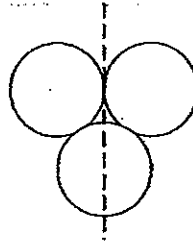


Figure 3

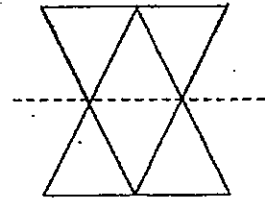
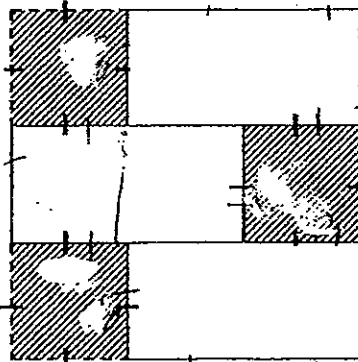


Figure 4

In which figure is the line of symmetry incorrectly drawn?

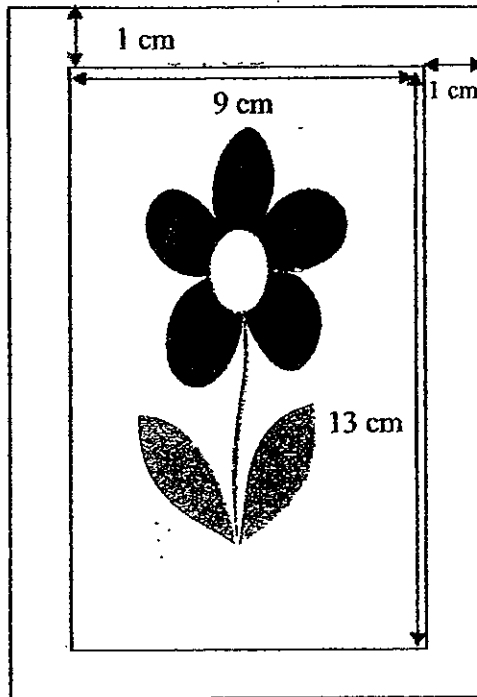
- 1) 1
  - 2) 2
  - 3) 3
  - 4) 4
- 16 3 identical squares had been removed from a square cardboard as shown below.



The total area of the shaded parts was  $108 \text{ cm}^2$ .  
Find the perimeter of the **remaining cardboard**.

- 1) 72 cm
- 2) 84 cm
- 3) 114 cm
- 4) 216 cm

- 17 A rectangular picture below measuring 9 cm by 13 cm was pasted onto a piece of cardboard as shown below, leaving a border of 1 cm all round the picture.



What is the perimeter of the cardboard?

- 1) 22 cm
- 2) 26 cm
- 3) 48 cm
- 4) 52 cm



# METHODIST GIRLS' SCHOOL

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## END-OF-YEAR EXAMINATION 2012 PRIMARY 4 MATHEMATICS

(BOOKLET B)

Total Time: 1 h 35 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.

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

Class: Primary 4. \_\_\_\_\_

Date: 9 October 2012

<b>Booklet A</b>	<b>/ 34</b>
<b>Booklet B</b>	<b>/ 36</b>
<b>Booklet C</b>	<b>/ 20</b>
<b>TOTAL</b>	<b>/ 90</b>

This booklet consists of 9 printed pages including this page

**Section B**

Questions 18 to 35 carry 2 marks each. Write your answers in the space provided.  
For questions which require units, give your answers in the units stated. (36 marks)

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18. Write the missing number in the number pattern below.

4 219, 4 369, 4 519, \_\_\_\_\_, 4 819

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

19. Round off 32 651 to the nearest hundred.

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

20.  $3\,008 - 542 =$  \_\_\_\_\_

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

21. Which two of the fractions below are smaller than  $\frac{1}{2}$ ?

$\frac{2}{3}$ ,  $\frac{2}{7}$ ,  $\frac{5}{10}$ ,  $\frac{5}{11}$

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

(Go on to the next page)

22 Write  $\frac{14}{6}$  as a mixed number in its simplest form.

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

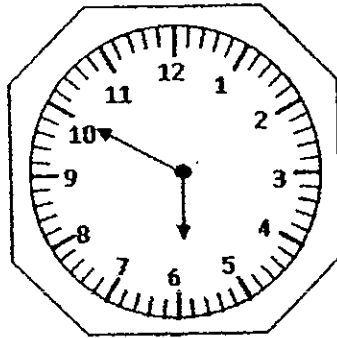
23 Express 0.64 as a fraction in its simplest form.

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

24 Find the value of  $5.78 \times 9$ .

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

25 The clock below shows the time Harry started jogging in the evening.



He finished jogging at 20 35. How long did he run?

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

Study the table below carefully and answer questions 26 and 27.

The table below shows the number of pupils from the various classes who attended the Math and Science Trail and the Science Enrichment lesson.

	Number of pupils who attended Math & Science Trail	Number of pupils who attended Science Enrichment
4A	26	25
4B	30	31
4C	25	16
Total	?	?

- 26 Primary 4A has 40 pupils. Every pupil attended at least 1 activity. How many pupils in Primary 4A attended both activities?

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

- 27 How many more pupils attended the Math & Science Trail than the Science Enrichment lesson?

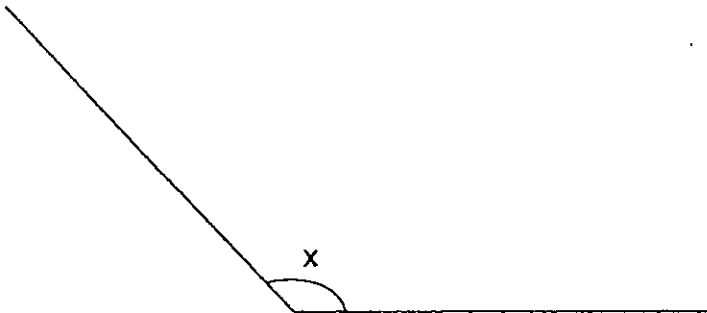
Ans: \_\_\_\_\_

(Go on to the next page)

- 28 Nathan took a bus ride to Kuala Lumpur. The journey was 4 h 20 mins. He then took a taxi to his hotel. The taxi ride was 45 minutes. He arrived at his hotel at 09 15. At what time did Nathan begin his journey? Express your answer in the 24-hour clock.

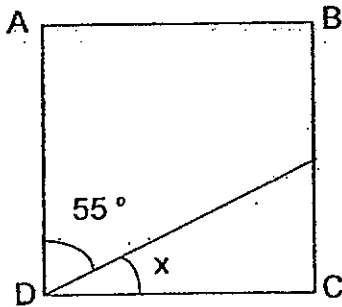
Ans: \_\_\_\_\_

- 29 Measure and write down the size of  $\angle x$ .



Ans: \_\_\_\_\_°

- 30 ABCD is a square. Find  $\angle x$ .

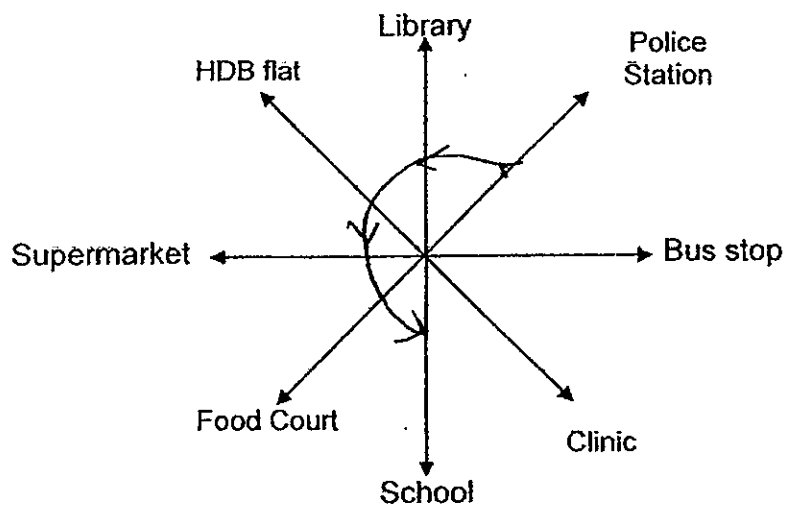


Ans: \_\_\_\_\_°

- 31 Kevin made two turns and ended up facing the HDB flat.

1<sup>st</sup> turn: He turned  $90^\circ$  anticlockwise.

2<sup>nd</sup> turn: He made a  $225^\circ$  clockwise turn.

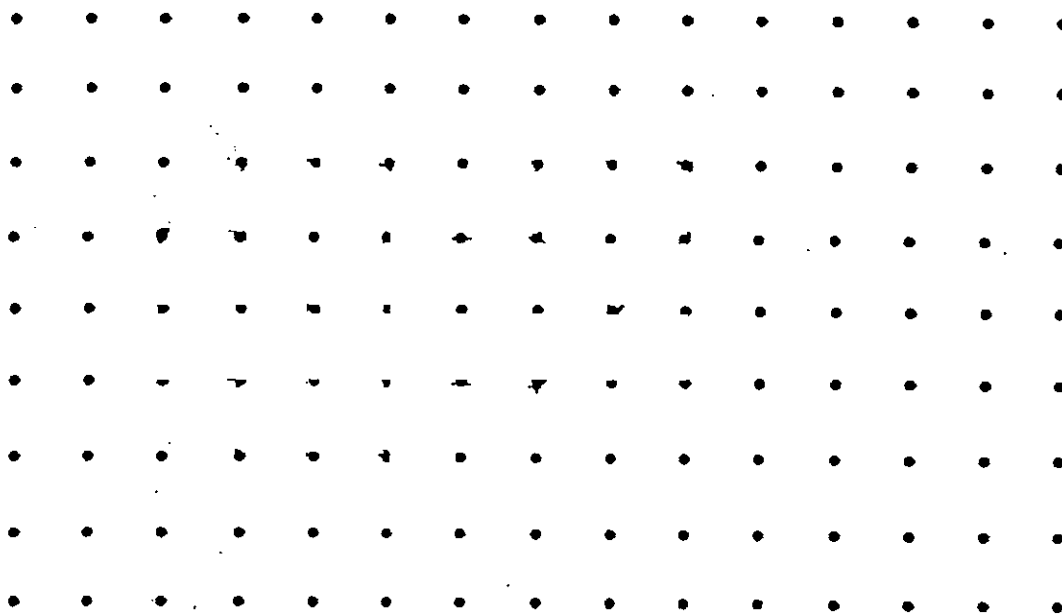


Where was Kevin facing at first?

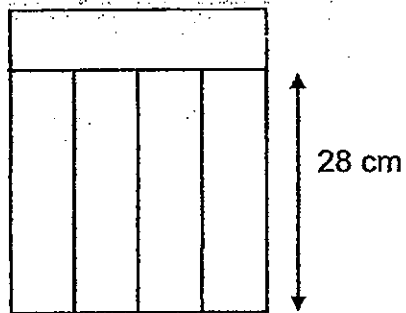
Ans: \_\_\_\_\_

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32 Extend the tessellation above by drawing 4 more unit shapes in the space provided.

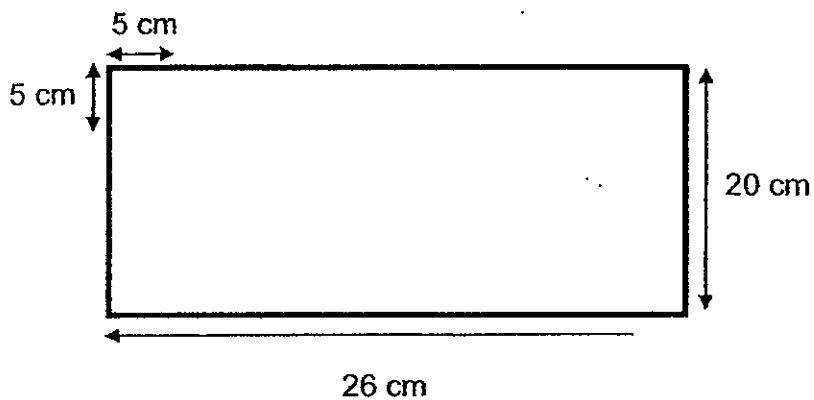


- 33 The figure below is made up of 5 identical rectangles. Find the area of the figure.



Ans: \_\_\_\_\_  $\text{cm}^2$

- 34 Serena cut out some triangular pieces from a rectangular piece of paper, as shown below.



What is the maximum number of triangular pieces of paper she can cut out?

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

(Go on to the next page)



35. The length of a rectangular field is 3 times the breadth of the field. The perimeter of the garden is 96 m . What is the length of the field?

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

# METHODIST GIRLS' SCHOOL

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## END-YEAR EXAMINATION 2012 PRIMARY 4 MATHEMATICS

(BOOKLET C)

Total Time: 1 h 35 min

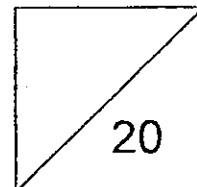
### INSTRUCTIONS TO CANDIDATES

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.

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

Class: Primary 4 \_\_\_\_\_

Date: 9 October 2012



This booklet consists of 6 printed pages including this page.

**Section C**

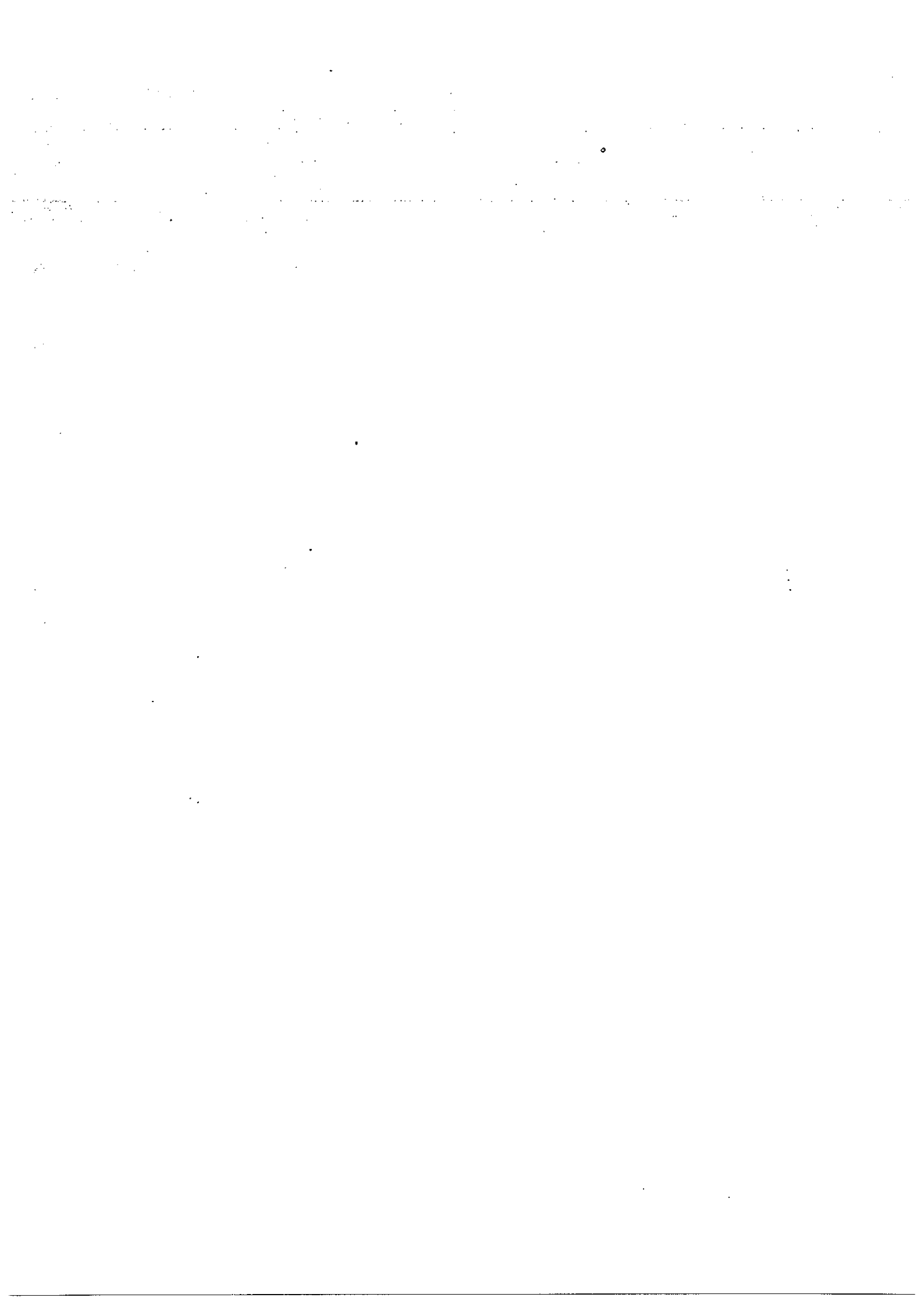
Questions 36 to 40 carry 4 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (20 marks)

- 36 The total mass of 6 packets of biscuits and 8 jars of sweets is 3 200g.  
The total mass of 1 packet of biscuits and 1 jar of sweets is 450 g.
- (a) What is the mass of 2 jars of sweets?
- (b) What is the mass of 1 packet of biscuits?

Ans: (a) \_\_\_\_\_ [2m]

(b) \_\_\_\_\_ [2m]

(Go on to the next page)



- 37 Raju gave  $\frac{2}{5}$  of his salary to his mother. He saved  $\frac{1}{3}$  of the remaining money and spent the rest equally on food, transport and entertainment. He spent \$274 on food.

- (a) How much did he spend on food, transport and entertainment?  
(b) What is Raju's salary?

Ans: (a) \_\_\_\_\_ [2m]

(b) \_\_\_\_\_ [2m]

(Go on to the next page)

- 38 Mrs Lim paid \$148 for 4 balls and 2 tennis rackets. A tennis racket cost twice as much as a ball. What is the total cost of 1 tennis racket and 1 ball?

Ans: \_\_\_\_\_ [4m]

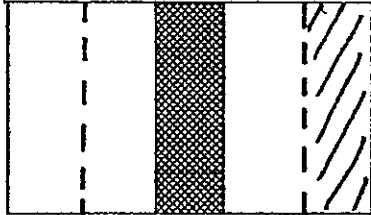
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- 39 Isabelle and Natasha had equal mass of candies. Isabelle packed her candies into big packets of mass 0.05 kg each while Natasha packed her candies into small packets of mass 0.03 kg each. As a result, Natasha had 4 more packets than Isabelle. What was the amount of candies that Isabelle had?

Ans: \_\_\_\_\_ [4m]

(Go on to the next page)

- 40 The figure below shows 2 identical squares which overlap. The shaded area is one third the area of each square. The total area of the unshaded part is  $108 \text{ cm}^2$



- (a) What fraction of the figure is shaded?  
(b) What is the length of the square?

Ans: (a) \_\_\_\_\_ [1m]

(b) \_\_\_\_\_ [3m]



# ANSWER SHEET

## EXAM PAPER 2012

SCHOOL : MGS  
SUBJECT : PRIMARY 4 MATHEMATICS

TERM : SA2

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

18)4669      19)32700      20)2466      21)2/7 and 5/11      22)2 $\frac{1}{3}$

23)16/25      24)52.02      25)2h 45min      26)11 pupils      27)9 more

28)0410      29)133°      30)35°      31)School      32)

33)28 + 7 = 35  
35 x 28 = 980cm<sup>2</sup>

34)26 ÷ 5 = 5 R1  
20 ÷ 5 = 4  
5 x 4 = 40

35)6 + 2 = 8  
96 ÷ 8 = 12  
1u → 12  
12 x 3 = 36m

36)6PB + 8JS = 3200g  
1PB + 1JS = 450g  
6PB + 6JS = 450 x 6 = 2700  
3200g - 2700g = 500g  
500g → 2 jars sweets  
1 jar sweets → 500 ÷ 2 = 250  
450 - 250 = 200

36)a)It is 500g  
b)It is 200g

37) 274 → 2u

$$274 \times 3 = 822$$

$$274 \div 2 = 137$$

$$137 \times 15 = 2055$$

a) He spent \$822

b) His salary is \$2055

38) 2 TR 

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 } 148  
4 B 

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$$148 \div 8 = 18.5$$

$$18.5 \times 2 = 37.0$$

$$37 = 18.5 = \$5.55$$

It is \$5.550

39)

No. of big Pkts	Mass (kg)	No. of small pkts	Mass (kg)	Check
1	0.05	5	$5 \times 0.03 = 0.15$	X
3	$3 \times 0.05 = 0.15$	7	$7 \times 0.03 = 0.21$	X
4	$4 \times 0.05 = 0.20$	8	$8 \times 0.03 = 0.24$	X
5	$5 \times 0.05 = 0.25$	9	$9 \times 0.03 = 0.27$	X
6	$6 \times 0.05 = 0.30$	10	$10 \times 0.03 = 0.3$	✓

The mass is 0.3kg

40) a) 1/5

b) Unshaded → 4 units

$$4 \text{ units} \rightarrow 108 \div 4 = 27$$

$$27 \times 3 = 81$$

$$81 = 9 \times 9$$

Ans: 9cm