



PEI HWA PRESBYTERIAN PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1

PRIMARY 4
MATHEMATICS PAPER

9 MAY 2017

Name : _____

Parent's signature

Form Class / Register No. : 4TW _____ / _____

Banded Class / Register No. : 4M _____ / _____

Total time: 1 h 45 min

INSTRUCTIONS TO CANDIDATES

1. Write your Name, Class and Register No. in the spaces provided above.
2. DO NOT turn over this page until you are told to do so.
3. Follow all instructions carefully and answer all questions.
4. For Section A, shade your answers on the Optical Answer Sheet (OAS) provided.
5. For Section B and C, write all your answers in this booklet.
6. The use of calculator is NOT ALLOWED.

Marks (Section A) :	40
Marks (Section B) :	40
Marks (Section C) :	20
Total Marks:	100

This booklet consists of 23 printed pages, excluding the cover page.

Section A: Multiple Choice Questions (20 x 2 = 40 marks)

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.

1 In which of the following numbers is the value of the digit 3 the greatest?

- (1) 23 165
- (2) 24 803
- (3) 26 937
- (4) 28 342

2 Which of the following pairs of numbers has a common factor of 8?

- (1) 2 and 4
- (2) 8 and 12
- (3) 8 and 24
- (4) 28 and 64

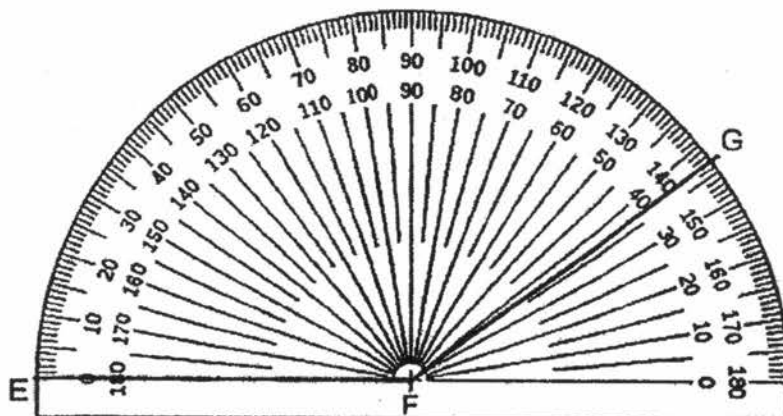
3 Multiply 345 by 21.

- (1) 1025
- (2) 1035
- (3) 7145
- (4) 7245

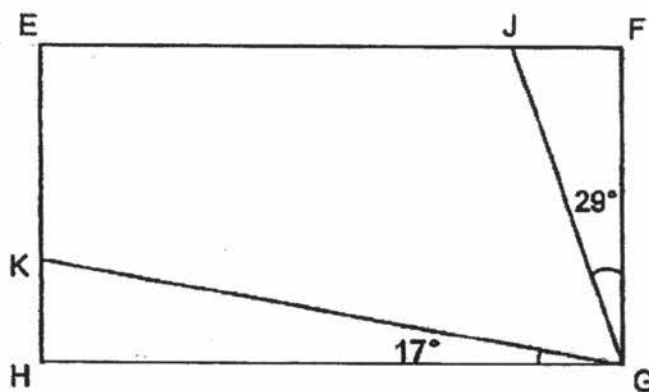
4 What fraction of a turn is 270° ?

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

- 5 What is the size of $\angle EFG$ using the protractor given below?

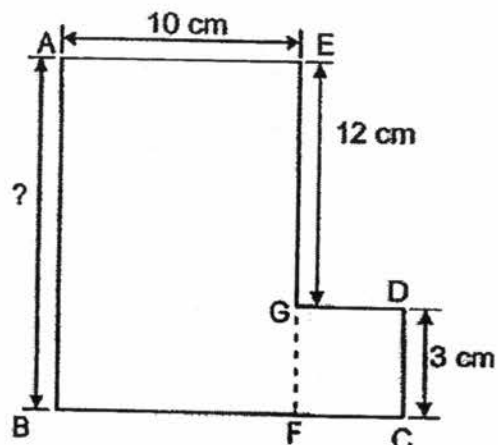


- (1) 37°
 (2) 43°
 (3) 143°
 (4) 157°
- 6 EFGH is a rectangle. Find $\angle JGK$.



- (1) 44°
 (2) 46°
 (3) 134°
 (4) 157°

- 7 The figure below is made up of a big rectangle and a small square. Find the length of AB.



- (1) 12 cm
(2) 13 cm
(3) 15 cm
(4) 56 cm
- 8 What is the missing number in the box?

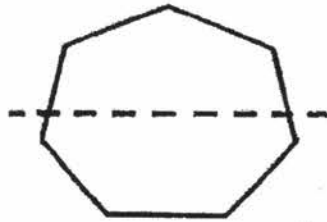
$$2\frac{2}{3} = \frac{\square}{9}$$

- (1) 8
(2) 16
(3) 20
(4) 24

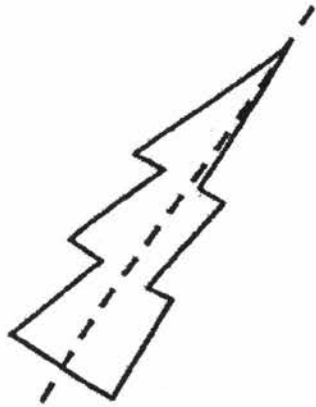
9

In which of the following figures is the dotted line a line of symmetry?

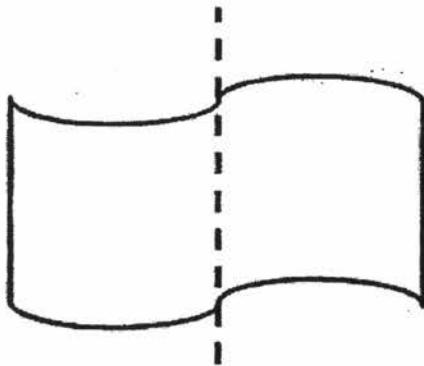
(1)



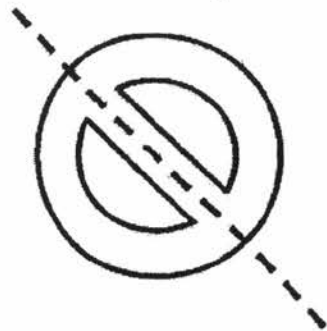
(2)



(3)



(4)



10 Find the value of $\frac{3}{4} + \frac{8}{9}$.

(1) $\frac{11}{13}$

(2) $\frac{24}{36}$

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

(4) $1\frac{23}{36}$

11 Ashley and Brenda baked 3818 cookies for a fundraising event. They packed 5 cookies in each box. How many boxes did they need if they had to pack all the cookies into boxes?

(1) 763

(2) 764

(3) 15050

(4) 19090

12 Zainal has an equal number of toy cars and toy trains at first. After he has given away 14 toy cars, he has 3 times as many toy trains as toy cars. How many toy trains does he have?

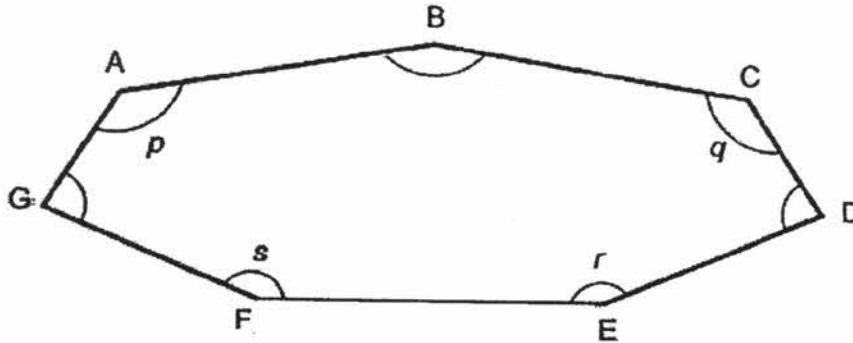
(1) 7

(2) 14

(3) 21

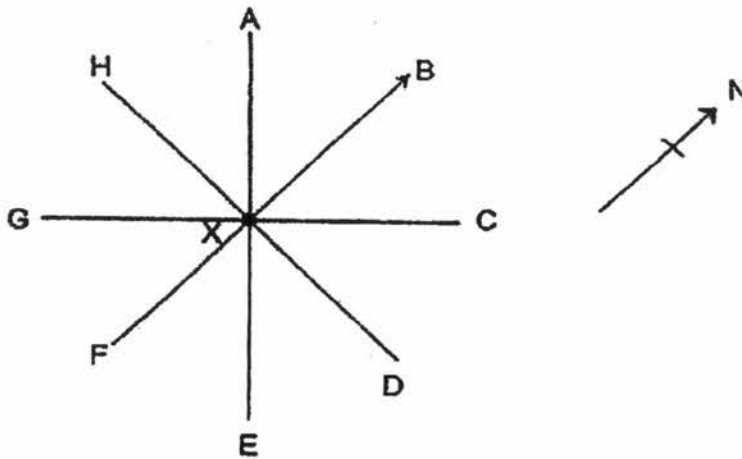
(4) 42

- 13 Look at the figure below. Which one of the marked angles has been correctly labelled?



- (1) $\angle p = \angle ABC$
- (2) $\angle q = \angle DEF$
- (3) $\angle r = \angle CDE$
- (4) $\angle s = \angle EFG$

- 14 Mark is standing at point X facing south. He makes a 135° turn in an anti-clockwise direction. Which point is he facing now?

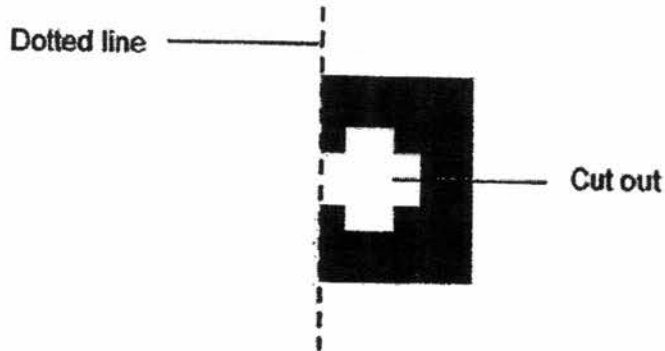


- (1) A
- (2) B
- (3) C
- (4) H

15

Tom folded a piece of paper into half along the dotted line.
He then cut out a shape as shown below.

Which one of the following shows the pattern when the paper is unfolded?



- (1)

A vertical rectangle with a white cross-shaped hole in the center, symmetric about a vertical line.
- (2)

A vertical rectangle with a white cross-shaped hole on the left side and a white cross-shaped hole on the right side, symmetric about a vertical line.
- (3)

A vertical rectangle with a white cross-shaped hole on the left side and a white cross-shaped hole on the right side, symmetric about a vertical line.
- (4)

A vertical rectangle with a white cross-shaped hole on the left side and a white cross-shaped hole on the right side, symmetric about a vertical line.

16. Which one of the following fractions is smaller than $\frac{1}{2}$?

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

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

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

(4) $\frac{5}{11}$

17. Ai Ling ate $\frac{1}{2}$ of a cake.

Each of her 3 brothers ate $\frac{1}{12}$ of the same cake.

What fraction of the cake was left?

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

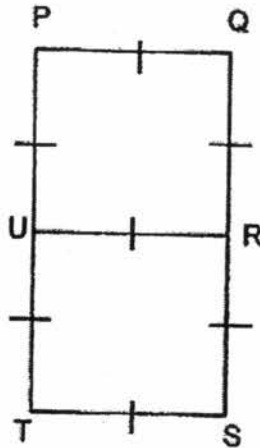
(2) $\frac{1}{2}$

(3) $\frac{5}{12}$

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

- 18 Rectangle PQST is made up of squares PQRU and URST.

The perimeter of one square is 64 cm. Find the perimeter of the rectangle.



- (1) 48 cm
(2) 96 cm
(3) 112 cm
(4) 128 cm
- 19 Meng Li spent a total of \$72 on a bag and a pair of shoes.
The shoes cost $\frac{5}{9}$ of the total amount spent.
How much money did Meng Li spent on the pair of shoes?

- (1) \$8
(2) \$16
(3) \$32
(4) \$40

20 In a fruit shop, $\frac{2}{3}$ of the fruits were sold and $\frac{1}{9}$ of the fruits were rotten and thrown away. There were 126 fruits left. How many fruits were thrown away?

- (1) 21
- (2) 63
- (3) 126
- (4) 378

Section B (20 x 2 = 40 marks)

Write your answers in the answer blanks provided.

For questions that require working, show your working clearly in the space provided.

21 Arrange the following numbers in increasing order.

78 369, 73 869, 76 839, 73 986,

Ans: _____, _____, _____, _____

22 How many multiples of 4 are there between 10 and 50?

Ans: _____

23 Use the digits below to form the smallest 4-digit number that can be divided by 5.

0

8

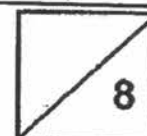
2

5

Ans: _____

24 Claris and Diana had 350 stickers.
After Claris gave away 120 stickers, both of them had the same number of stickers.
How many stickers did Diana have?

Ans: _____

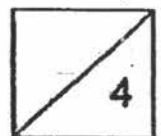


- 25 AB is a straight line. Draw a line AC such that $\angle BAC = 75^\circ$.



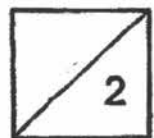
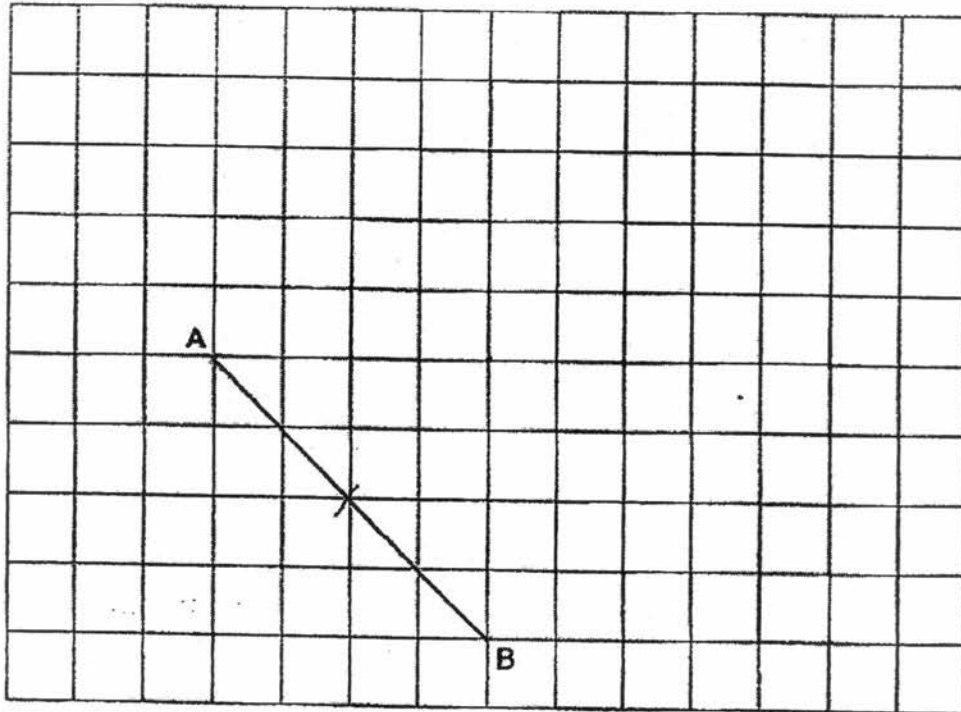
- 26 Sue is facing North-East.
She then makes a clockwise turn and is now facing South-West.
How many degrees did she turn?

Ans: _____



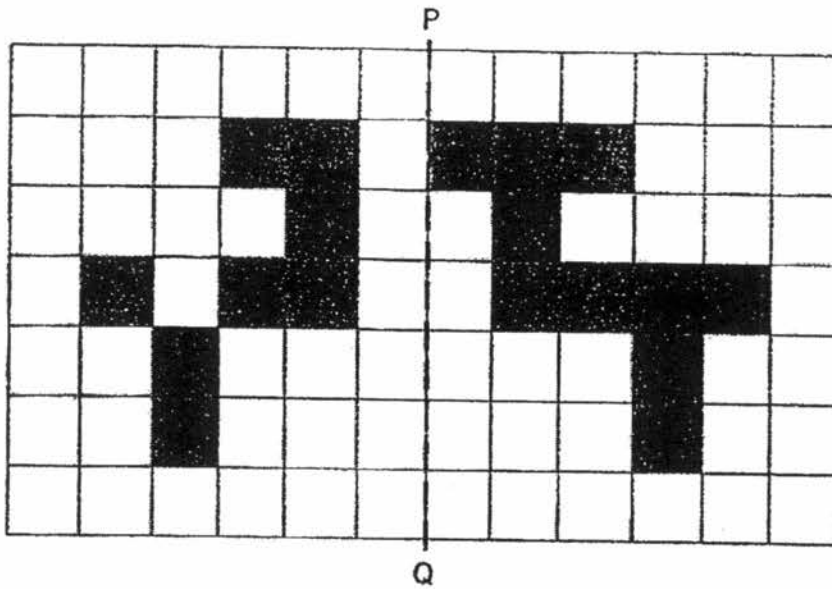
27 Complete the drawing of square ABCD on the grid below.

Line AB has been drawn for you.



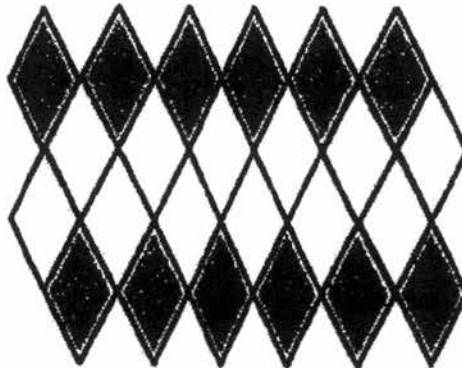
28 The figure below is made up of squares.

Shade 2 more squares to form a symmetrical figure with PQ as the line of symmetry.

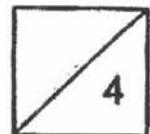


29 The figure below is made up of 24 identical diamonds.

How many more diamonds have to be shaded so that $\frac{2}{3}$ of the figure is shaded?



Ans: _____



30 Find the value of $\frac{1}{2} - \frac{1}{6}$ Express your answer in the simplest form.

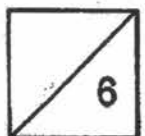
Ans: _____

31 Find the sum of 2938 and 2954 and round off the answer to the nearest hundred.

Ans: _____

32 There are some apples in a basket.
The number of apples in a basket is between 40 and 50.
These apples can be put into bags of 3 or bags of 5.
How many apples are there in the basket?

Ans: _____



- 33 John has 3 books with different number of pages.
There are 1284 pages in Book B and 405 pages in Book C.
The number of pages in Book A is 6 times as many as the number of pages in Book C.
How many pages are there in the 3 books altogether?

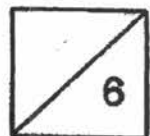
Ans: _____

- 34 When 2 numbers are added together, the answer is 6750.
The difference between the 2 numbers is 250.
What is the smaller number?

Ans: _____

- 35 Junhui, Khalid and Lionel shared some erasers.
Junhui had 4 times as many erasers as Lionel.
Khalid had 64 fewer erasers than Junhui and 88 more erasers than Lionel.
How many erasers did Lionel have?

Ans: _____

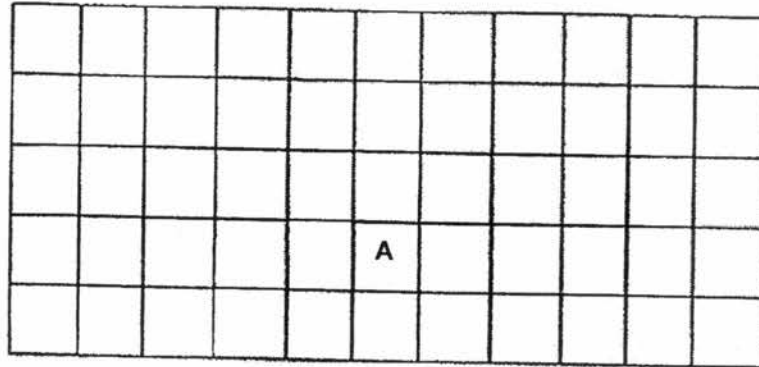


36

Look at the diagram below.

Hakim was at position A.

He then moved 2 steps to the North, moved 4 steps to the West, 2 steps to the South and 2 steps to the East. Shade the square at the position at which he would finally be.

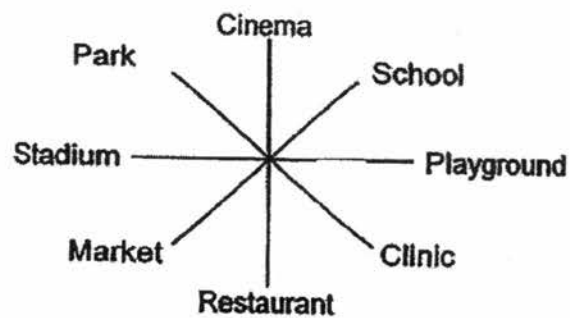


37

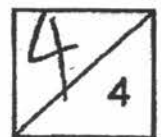
Look at the diagram below.

Eric was facing the market after turning 225° clockwise.

Where was he facing at first?



Ans: _____



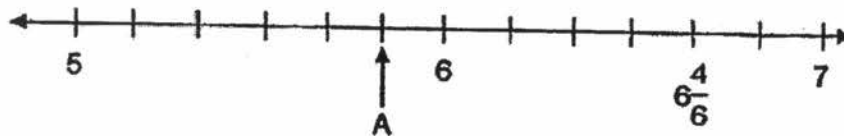
- 38 Caleb had some stickers.
He gave $\frac{1}{8}$ of the stickers away and had 98 stickers left.
How many stickers did Caleb have at first?

Ans: _____

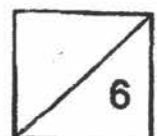
- 39 Mrs Lim bought 4 kg of strawberries.
Li Ming ate $\frac{1}{4}$ of it and Ming Hui ate $\frac{3}{5}$ kg.
How many kilograms of strawberries were left?

Ans: _____ kg

- 40 In the number line below, find the value of A.
Express your answer as an improper fraction.



Ans: _____

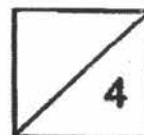


Section C (5 x 4 = 20 marks)

Solve each of the following problems. Show all your working and statements clearly.
Write your answers in the spaces provided.

- 41 Zach bought some notebooks at \$3 each.
He paid a total of \$630.
Some notebooks were damaged and thrown away.
Zach sold the remaining notebooks at \$5 each and collected \$875.
How many notebooks were damaged?

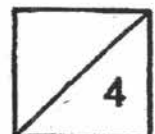
Ans: _____ [4]



42

Man Ling, Nurul and Lina saved a total of \$5373 in December.
Man Ling saved twice as much as Lina.
Nurul saved three times as much as Man Ling.
How much did Nurul and Lina save altogether?

Ans: _____ [4]



20

PHPPS/MATH/P4/SA1/2017

43 324 people went to a fun fair.

$\frac{1}{3}$ of the people were men, $\frac{1}{4}$ of them were women and the rest were children.

(a) What fraction of the people were children?

(b) If each child ticket cost \$12, how much money was collected from the sales of the children's ticket?

Ans: (a) _____ [1]

(b) _____ [3]



44 Study the pattern below.

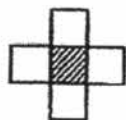


Figure 1

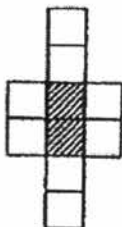


Figure 2

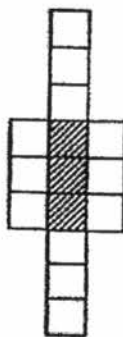


Figure 3

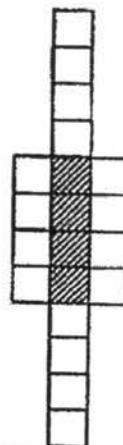
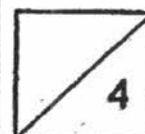


Figure 4

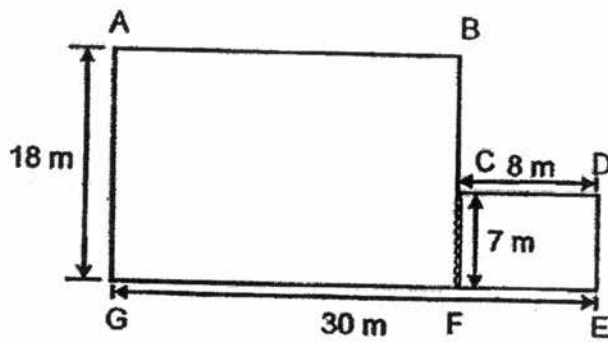
Figure Number	Number of shaded squares	Number of unshaded squares	Total number of squares
1	1	4	5
2	2	8	10
3	3	12	15
4	4	16	20
5	(i) _____	(ii) _____	25

- (a) Fill in the number of shaded and unshaded squares for Figure 5 in the table above. [2m]
- (b) Find the total number of squares in Figure 49.

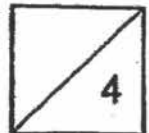
Ans: (b) _____ [2]



- 45 The figure below shows the layout of a garden which consists of 2 rectangles. Mr Lim wants to plant grass on the entire garden. Each square metre of grass costs \$13. How much does it cost Mr Lim to plant the entire garden with grass?



Ans: _____ [4]



End of Paper

SCHOOL : PEI HWA PRIMARY SCHOOL
LEVEL : PRIMARY 4
SUBJECT : MATH
TERM : 2017 SA1

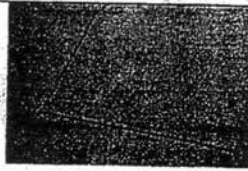
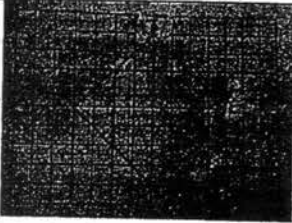
CONTACT :

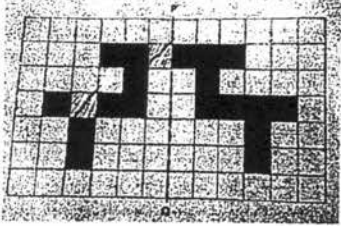
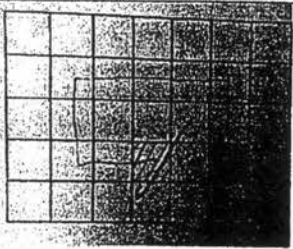
SECTION A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	3	4	3	3	1	3	4	4	4

Q 11	Q12	Q13	Q14	Q15	Q 16	Q17	Q18	Q19	Q20
2	3	4	3	3	4	1	2	4	2

SECTION B

Q21)	73869, 73986, 76839, 78369
Q22)	10
Q23)	2085
Q24)	$350 - 120 = 230$ $230 \div 2 = \underline{115}$
Q25)	
Q26)	180
Q27)	

Q28)	
Q29)	4
Q30)	1/3
Q31)	$2938 + 2954 = 5892 \approx \underline{5900}$
Q32)	45
Q33)	$405 \times 7 = 2835$ $2835 + 1284 = \underline{4119}$
Q34)	$6750 - 250 = 6500$ $6500 \div 2 = \underline{3250}$
Q35)	$64 + 86 = 150$ $150 \div 3 = \underline{50}$
Q36)	
Q37)	Cinema
Q38)	$8 - 1 = 7$ $98 \div 7 = 14$ $14 \times 8 = \underline{112}$

Q39)	<p>Li Ming $\rightarrow \frac{1}{4} \times 4\text{kg} = 1\text{kg}$ Ming Hui $\rightarrow 3/5 \text{ kg}$ Total eaten $\rightarrow 1\text{kg} + 3/5 \text{ kg} = 1 \frac{3}{5} \text{ kg}$ Left $\rightarrow 4 \text{ kg} - 1 \frac{3}{5} \text{ kg} = \underline{2 \frac{2}{5} \text{ kg}}$</p>
Q40)	35/6
Q41)	<p>$630 \div 3 = 210$ $875 \div 5 = 175$ $210 - 175 = \underline{35}$</p>
Q42)	<p>$5373 \div 9 = 597$ $597 \times 7 = \underline{4179}$</p>
Q43)	<p>$4 + 3 = 7$ $12 - 7 = 5$ $324 \div 12 = 27$ $27 \times 5 = 135$ $135 \times 12 = \underline{1620}$</p>
Q44)	<p>a) i) 5 ii) 20 b) $49 \times 5 = \underline{245}$</p>
Q45)	<p>$8 \times 7 = 56$ $22 \times 18 = 396$ $396 + 56 = 452$ $452 \times \\$13 = \underline{\\$5876}$</p>

