

HENRY PARK PRIMARY SCHOOL
2010 SEMESTRAL EXAMINATION 1
MATHEMATICS
PRIMARY 5

PAPER 1
(BOOKLET A)

Name: _____ ()

Class: Primary 5 _____

Total Time for Booklets A and B: 50 min

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.

You are **not** allowed to use a calculator.

Booklet A:

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.

For each of the questions, four options are given. One of them is the correct answer.

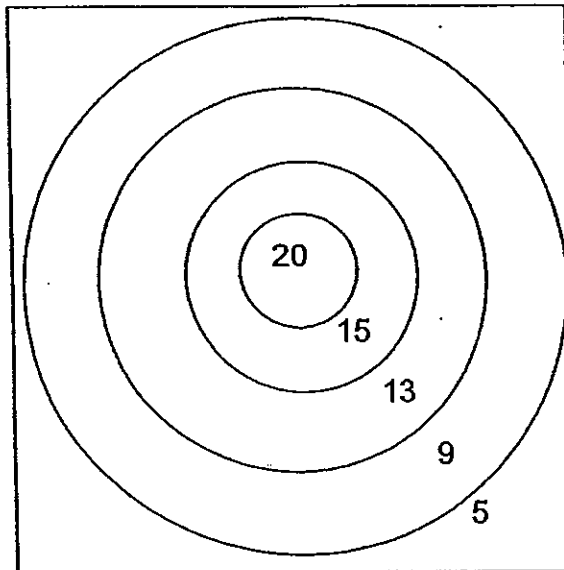
Choose the correct answer (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet. (20 marks)

1. There were 1 099 398 spectators at the stadium watching a football match. Express the number of spectators at the stadium to the nearest thousand.

- (1) 1 090 000
- (2) 1 099 000
- (3) 1 100 000
- (4) 1 199 000

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2. 3 arrows are shot at a target as shown below. Which one of these scores is **NOT** possible?



- (1) 27
- (2) 34
- (3) 40
- (4) 61

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3. Evaluate $100 \div 2 + 3 \times 8 + 4$.

- (1) 65
- (2) 78
- (3) 164
- (4) 240

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4. John had 2 boxes of chocolates. He ate 2 chocolates and had 46 chocolates left. Which expression below shows how the number of chocolates in each box at first can be calculated?

- (1) $(46 + 2) \div 2$
- (2) $(46 - 2) \div 2$
- (3) $46 + 2 \div 2$
- (4) $46 - 2 \div 2$

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5. How many eighths are there in $1\frac{1}{2}$?

- (1) 12
- (2) 5
- (3) 3
- (4) 4

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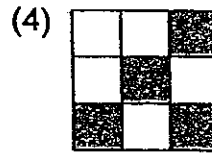
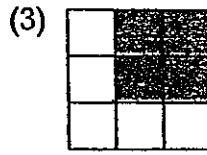
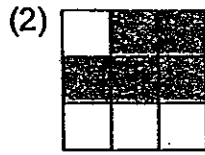
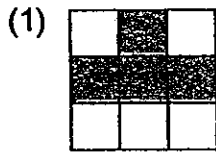
6. Which of the following fractions is smaller than $\frac{1}{4}$?

- (1) $\frac{11}{32}$
- (2) $\frac{7}{24}$
- (3) $\frac{3}{20}$
- (4) $\frac{5}{12}$

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Some

7. Each of the figures below is made up of 9 squares. ~~A~~ squares in each figure are shaded. Which of the following is not a symmetric figure?



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8. Linda has 15 red, 18 yellow and 21 pink roses. What is the ratio of the number of red roses she has to the total number of roses?

- (1) 5 : 13
(2) 1 : 3
(3) 5 : 18
(4) 7 : 18

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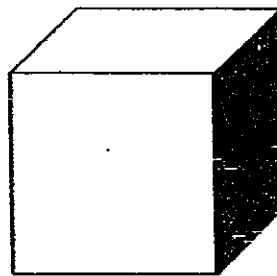
9. $\frac{2}{5}$ of the pupils in Primary 5B are girls. What is the ratio of the number of ~~boys~~ to the number of ~~girls~~ in the class?

- (1) 3 : 5
(2) 3 : 2
(3) 2 : 3
(4) 5 : 3

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10. The figure shows a cube. The area of the shaded face is 100 cm^2 . What is the volume of the cube?

- (1) 600 cm^3
(2) 1000 cm^3
(3) 6000 cm^3
(4) $10\,000 \text{ cm}^3$



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11. There were 350 people at a fun fair. There were 18 more children than women, and twice as many men as women. How many men were there?

- (1) 83
- (2) 101
- (3) 166
- (4) 332

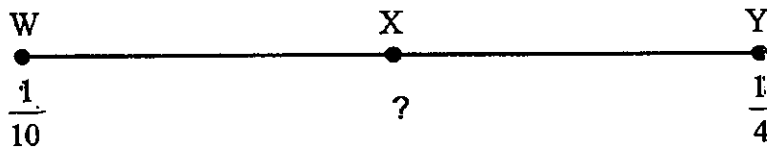
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12. Machine A can make 420 toys in 1 hour and Machine B can make 405 toys in 45 minutes. How many more toys can Machine B make than Machine A in 1 minute?

- (1) 7
- (2) 2
- (3) 9
- (4) 15

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13. In the number line below, W represents $\frac{1}{10}$, Y represents $\frac{1}{4}$, and X is at the midpoint between W and Y. What fraction is represented by X?

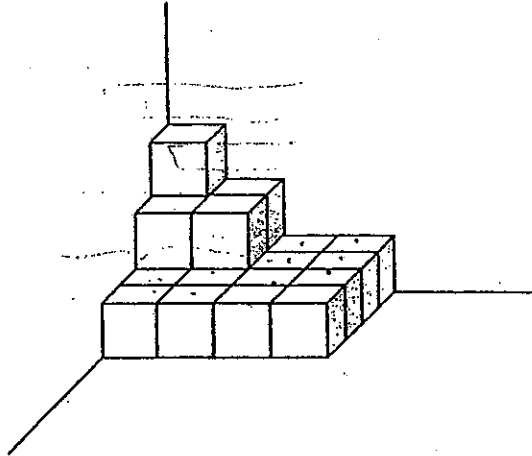


- (1) $\frac{1}{20}$
- (2) $\frac{7}{20}$
- (3) $\frac{3}{40}$
- (4) $\frac{7}{40}$

()

14. The solid figure below is formed using 2-cm cubes. Find its volume.

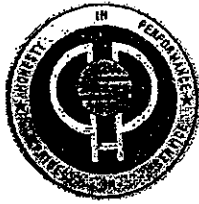
- (1) 16 cm^3
- (2) 21 cm^3
- (3) 128 cm^3
- (4) 168 cm^3



15. The ratio of the number of green marbles to the number of red marbles in a box is 3 : 5. The ratio of the number of green marbles to the number of blue marbles is 2 : 3. What is the ratio of the number of red marbles to the number of blue marbles?

- (1) 3 : 2
- (2) 5 : 3
- (3) 8 : 5
- (4) 10 : 9

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HENRY PARK PRIMARY SCHOOL
2010 SEMESTRAL EXAMINATION 1
MATHEMATICS
PRIMARY 5

PAPER 1
(BOOKLET B)

Name: _____ ()

Class: Primary 5 _____

Total Time for Booklets A and B: 50 min

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.

You are not allowed to use a calculator.

Booklet B:

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. $\div 9 = 15 + 19$

What is the missing number in the box?

Ans: _____

17. What is the sum of 800 000 ones, 400 hundreds and 20 thousands?

Ans: _____

18. Look at the pattern below.

$$1 \div 9 = 0.111111$$

$$2 \div 9 = 0.222222$$

$$3 \div 9 = 0.333333$$

$$1 \div 99 = 0.010101$$

$$2 \div 99 = 0.020202$$

$$3 \div 99 = 0.030303$$

What is $4 \div 999$ (to 6 decimal places)?

Ans: _____

19. Pens are only sold in packets of 12 pens. Each packet is sold at \$8. John has \$20. What is the maximum number of pens he can buy?

Ans: _____

20. $\frac{7}{14} = \frac{14}{28} = \frac{A}{18}$

What is A?

Ans: _____

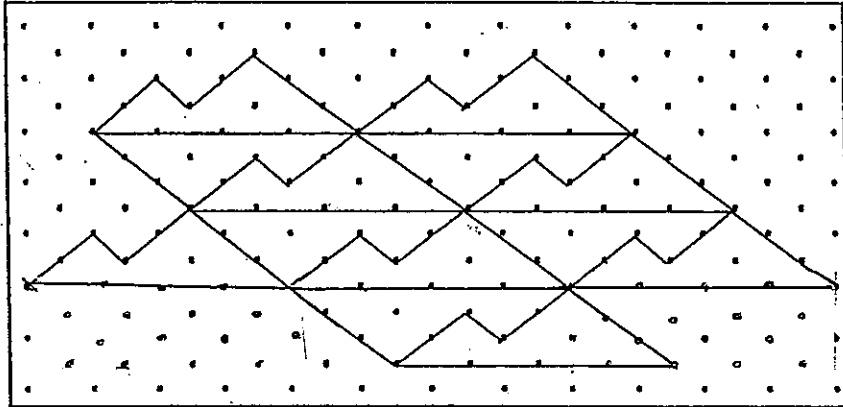
21. Arrange these fractions from the smallest to the largest: $\frac{2}{3}$, $1\frac{1}{4}$, $\frac{3}{5}$.

Ans: _____

22. Find the value of $\frac{3}{10} \times \frac{5}{9}$. (Give your answer in its simplest form.)

Ans: _____

23. The pattern in the box shows part of a tessellation. Extend the tessellation by drawing two more unit shapes in the space provided in the box. Shade the two unit shapes you have drawn.



24. The mass of Parcel A is 12 kg. The total mass of Parcel A and B is 30 kg. What is the ratio of the mass of Parcel B to the mass of Parcel A in its simplest form?

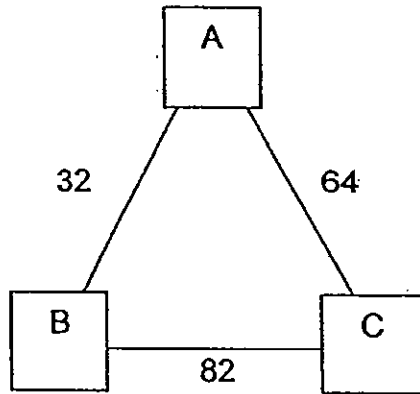
Ans: _____

25. A rectangular tank measuring 12 cm by 5 cm by 9 cm is completely filled with water. What is the volume of the water in the tank?

Ans: _____ cm³

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

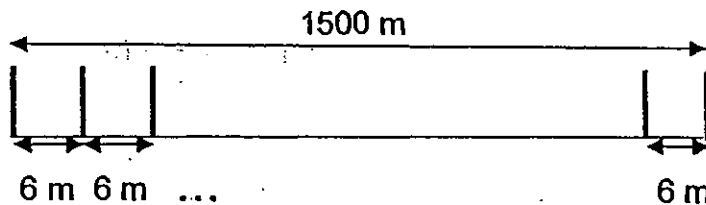
26. In the diagram, A, B and C stand for 3 different numbers. The sum along each side of the triangle is shown.



What number does B stand for ?

Ans: _____

27. Lamp posts along a street are placed 6 m apart from the starting point to the end. How many lamp posts are there along a 1500 m-long street?

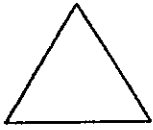


Ans: _____

28. Look at the shapes below.

(a) Name one shape that has more than two pairs of parallel lines.

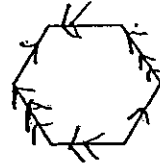
(b) Name one shape that has more than two pairs of perpendicular lines.



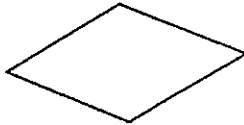
Equilateral
triangle



Square



Regular
hexagon



Rhombus



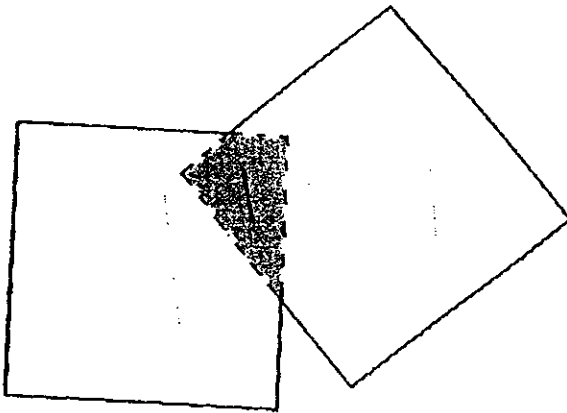
Rectangle

Ans: (a) _____

(b) _____

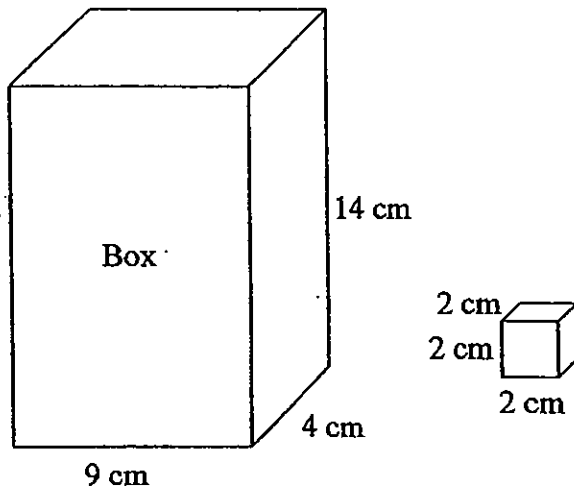
29. The figure is made up of two identical squares. $\frac{1}{6}$ of each square is shaded.

What fraction of the figure is shaded?



Ans: _____

30. Some 2-cm cubes are needed to fill the box below. What is the maximum number of cubes that can be put into the box?



Ans: _____



HENRY PARK PRIMARY SCHOOL
2010 SEMESTRAL EXAMINATION 1
MATHEMATICS
PRIMARY 5

PAPER 2

Name: _____ ()

Class: Primary 5 _____

Time for Paper 2: 1 h 40 min

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are allowed to use a calculator.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

1. There were 22 passengers in a bus. At the first bus-stop, 6 passengers alighted from the bus and 15 passengers boarded it. At the second bus-stop, 8 passengers alighted from the bus and 3 passengers boarded it. How many passengers were in the bus then?

Ans: _____

2. Belicia made some pizzas for a party. $\frac{1}{3}$ of the pizzas were seafood pizzas and $\frac{1}{2}$ of them were Hawaiian pizzas. The remaining 24 pizzas were black pepper chicken pizzas. How many pizzas did she make?

Ans: _____

3. A rectangular tank measuring 28 cm by 20 cm by 14 cm contains water to a height of 5 cm. How much more water must be poured in to fill it to the brim?

Ans: _____ cm^3

4. Ships stop over at Keppel Port to unload cargo and leave on the same day. Ship A stops over every 2 weeks, Ship B every 4 weeks, Ship C every 6 weeks and Ship D every 8 weeks. How many weeks will it take for all four ships be at the port on the same day?

Ans: _____

5. A class of Chinese and Malay pupils went to the zoo. The ratio of the number of Chinese pupils to the number of Malay pupils was 10 : 7. The ratio of the number of Malay boys to the number of Malay girls was 9 : 5. What was the ratio of the number of Malay girls to the number of Chinese pupils in its simplest form?

Ans: _____

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks available is shown in brackets [] at the end of each question or part-question. (50 marks)

6. Both Carton X and Carton Y had the same number of apples at first. After 45 apples from Carton X and 870 apples from Carton Y were sold, the number of apples left in Carton X was 6 times the number of apples left in Carton Y. How many apples were there in Carton X at first?

Ans: _____ [3]

7. $\frac{2}{3}$ of Sean's marbles is equal to $\frac{1}{5}$ of Edmund's marbles. Edmund has 315 more marbles than Sean. How many marbles does Sean have?

Ans: _____ [3]

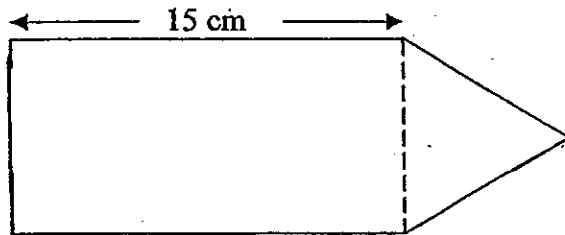
8. $\frac{3}{5}$ of the notes in Mum's safe are \$50 notes. $\frac{2}{3}$ of the remainder are \$10 notes and \$5 notes and the rest are \$2 notes. She has twenty-four \$2 notes. The number of \$10 notes is $\frac{1}{7}$ of the number of \$5 notes. What is the number of \$10 notes in Mum's safe?

Ans: _____ [3]

9. The ratio of the number of men to the total number of passengers in an MRT train is 4 : 9. The ratio of the number of women to the number of children is 9 : 1. There are 72 women.
- Find the total number of passengers in the train.
 - How many more men than children are there in the train?

Ans: (a) _____ [2]
(b) _____ [1]

10. The figure below shows a garden which is formed by a rectangle and an equilateral triangle. If the area of the rectangular part of the garden is $116\frac{1}{4}$ cm², find the perimeter of the garden.



Ans: _____ [3]

11. There were some customers at Lynn's restaurant. $\frac{2}{5}$ of the customers left the restaurant and 8 customers came. An hour later, $\frac{3}{7}$ of the customers left and 9 customers came. There were 29 customers in the restaurant then, how many customers were there at first?

Ans: _____ [4]

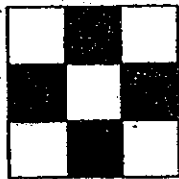
12. A rectangular swimming pool, 11 m long and 8 m wide, was filled with water to its brim. After 4 big tanks of water were removed from the swimming pool, the pool was a quarter full. The volume of water in each of the big tank was 33 m^3 . What was the height of the rectangular swimming pool?

Ans: _____ [4]

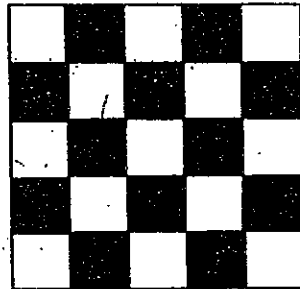
13. There are twice as many cars as motorcycles parked in a car park. The cars and motorcycles have a total of 610 wheels. How many cars are parked in the car park?

Ans: _____ [4]

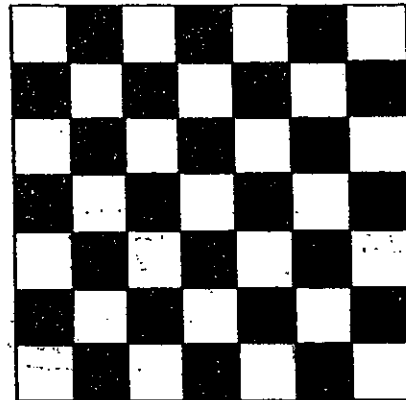
14. A design is created using grey and white 1-cm square tiles.



Pattern 1



Pattern 2



Pattern 3

a) Complete the table below. [2]

Pattern	Area of grey tiles (cm ²)	Area of white tiles (cm ²)	Total area of each pattern (cm ²)
1	4	5	9
2	12	13	25
3	24	25	49
4		41	

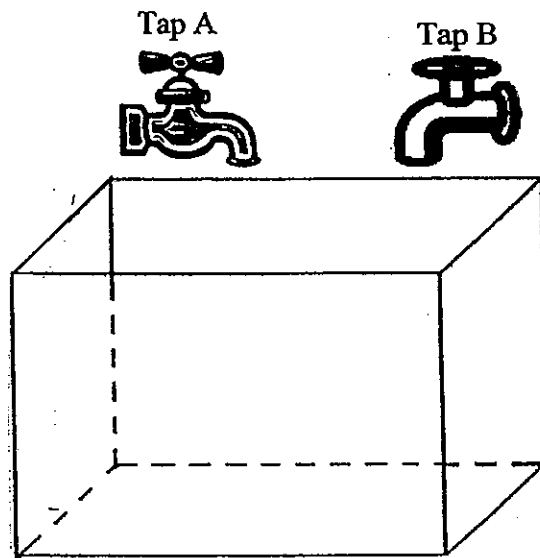
b) What is area of grey tiles for pattern 15?

Ans: (b) _____ [2]

15. A total of 4900 people watched a musical at the theatre. 1120 of them were men. There were 880 more women than men. There were some boys at the theatre and the remaining $\frac{1}{5}$ of the people are girls. Find ratio of the number of boys to the number of women at the theatre.

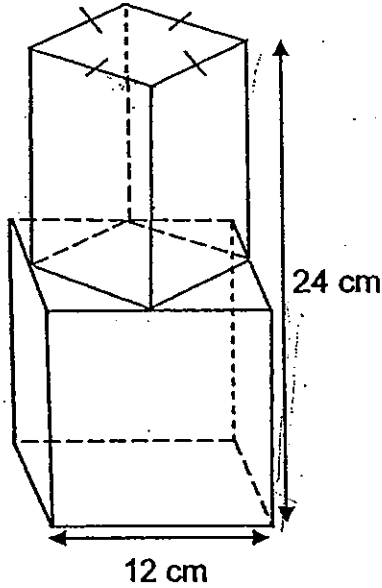
Ans: _____ [4]

16. The figure below shows Tap A, Tap B and an empty tank. Tap A can fill the empty tank in 12 minutes and Tap B can fill the empty tank in 20 minutes. Both taps are turned on at the same time. How long will it take for both taps to fill up the whole tank together?



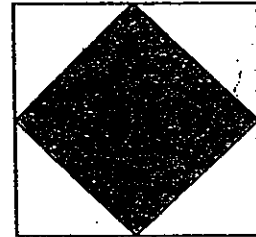
Ans: _____ [5]

17. The figure below shows an empty water container made out of 2 different solid shapes. The total height of the figure is 24 cm. The bottom part of the figure is formed by a 12-cm cube. The top part of the figure is formed by a cuboid with the corners of its square base touching the midpoints of the edges of the cube. The figure on the right shows the view of the solid from the top.



Water Container

View of solid from the top



2 litres of water is poured into the empty water container. Find the height of the water level from the base of the water container. Correct your answer to the nearest one decimal place.

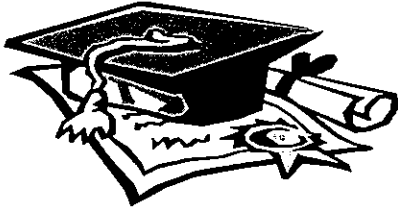
Ans: _____ [5]

18. The ratio of the amount of money Abigail had to the amount of money Beatrice had was 6 : 7. Abigail then gave $\frac{5}{6}$ of her money to Beatrice. In the end, Beatrice returned \$66 to Abigail and they both had the same amount of money. How much money did each girl have at the beginning?

Ans: Abigail: _____
Beatrice: _____ [5]

END OF PAPER-

Setters: Ms Chin Lian Mei and Mrs Priscilla Heng

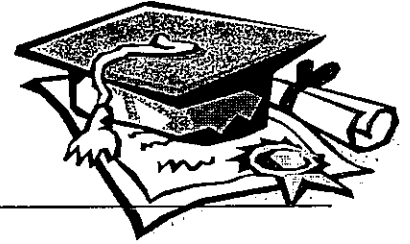


ANSWER SHEET

EXAM PAPER 2010

SCHOOL : HENRY PARK PRIMARY
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA1

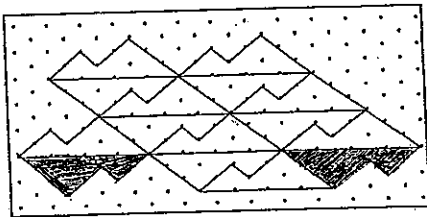


Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
2	4	2	1	1	3	2	3	2	2	3	2	4	4	4

16) 306 17) 860000 18) 0.004004 19) 24 20) 9 21) $3/5, 2/3, 1\frac{1}{4}$

22) $1/6$

23)



24) 3:2 24) 540 26) 25 27) 251 28a) Regular Hexagon

28b) Rectangle 29) $1/11$ 30) 56

Paper 2

1) 26 2) 144 3) 5040 4) 24 weeks 5) 1:2

6) 1035 7) 135 8) 4 9a) 144 9b) 56

10) 49.75 11) 45 12) 2m 13) 122 14) 480

15) 2:5 16) 7min 30 secs 17) 15.8 18) \$36 (Abigail)

18) \$42 (Beatrice)

