

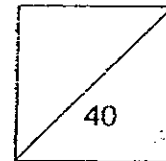


**HENRY PARK PRIMARY SCHOOL
2008 SEMESTRAL EXAMINATION ONE
MATHEMATICS
PRIMARY 5**

PAPER 1

Name: _____ ()

Class: Primary _____



**30 Questions
40 Marks**

Total Time for Booklet A and B: 50 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

READ AND FOLLOW INSTRUCTIONS CAREFULLY.

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 provided. (20 marks)

1. In 235 980, which digit is in the ten thousands place?
- (1) 5
(2) 2
(3) 3
(4) 9
- ()
2. $634\,728 = \underline{\hspace{2cm}} + 4000 + 700 + 20 + 8$
- (1) 630
(2) 6 300
(3) 63 000
(4) 630 000
- ()
3. Evaluate $48 + (35 + 13) \div 2 \times 3$
- (1) 16
(2) 56
(3) 120
(4) 216
- ()
4. What is the quotient when 1 265 is divided by 12?
- (1) 154
(2) 105
(3) 15
(4) 5
- ()

5. $4\frac{1}{2} - 2\frac{3}{4} = \square$

What is the missing value in the box?

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

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

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

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

()-

6. Which one of the following does not have the same value as $\frac{5}{8}$?

(1) $5 \div 8$

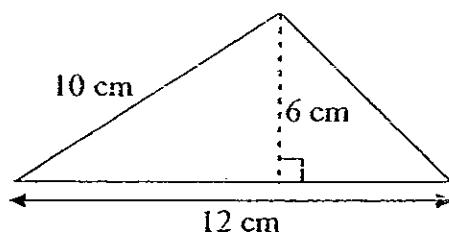
(2) $8 \div 5$

(3) $\frac{14}{2} + \frac{1}{8}$

(4) $5 \times \frac{1}{8}$

()

7. What is the area of the triangle shown below?



(1) 30 cm^2

(2) 36 cm^2

(3) 60 cm^2

(4) 72 cm^2

()

8. May is 30 years old and her brother is 15 years younger than she. In five years' time, what is the ratio of May's age to her brother's age?

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

()

9. $16 : 24 = \underline{\hspace{2cm}} : 18$

What is the missing number?

- (1) 12
- (2) 10
- (3) 8
- (4) 4

()

10. A cube has a volume of 216 cm^3 . What is the length of its edge?

- (1) 6 cm
- (2) 36 cm
- (3) 72 cm
- (4) 108 cm

()

11. Linda has \$1200. She paid \$250 for a pair of shoes and thrice as much for a handbag. How much money has she left?

- (1) \$200
- (2) \$450
- (3) \$750
- (4) \$1000

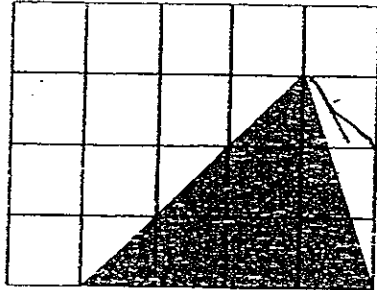
()

12. Some girls are sharing a packet of playing cards. If each of them takes 4 cards, there will be 2 cards left. If each of them takes 5 cards, they will be short of 2 cards. How many girls are there?

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

()

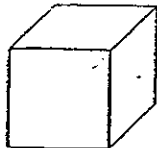
13. What fraction of the square grids below is shaded?



- (1) $\frac{1}{2}$
- (2) $\frac{1}{4}$
- (3) $\frac{3}{10}$
- (4) $\frac{7}{20}$

()

14. The total surface area of the cube below is 24 cm^2 . What is the volume of this cube?



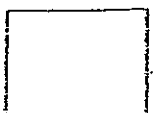
- (1) 8 cm^3
- (2) 16 cm^3
- (3) 64 cm^3
- (4) 216 cm^3

()

15. A sum of money is shared between two brothers, Brendon and Carl in the ratio 2 : 3. If Brendon receives \$180, what is the amount each should get if they are going to share the sum of money equally with their sister, Daisy?

- (1) \$90
- (2) \$100
- (3) \$150
- (4) \$450

()



NAME: _____

CLASS: P5 _____

Booklet B :

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided.

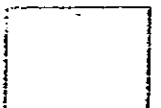
For questions which require units, give your answers in the units stated. (10 marks)

16. Mandy used the calculator and found out that $437 \times 8\,879 = 3\,880\,123$.
What is the value of $437 \times 8\,880$?

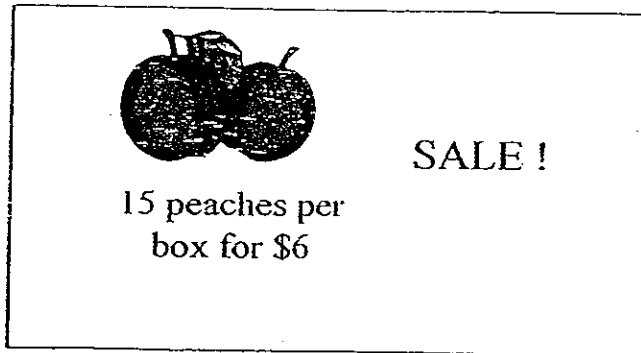
Ans: _____

17. Mr Lim rounded off a sum of money to \$680 000. What is the minimum amount of money Mr Lim has if he rounded it off to the nearest \$10 000?

Ans: \$ _____



18. What is the maximum number of peaches I could buy with \$48?



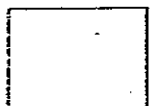
Ans: _____

19. When a number is multiplied by 7, its product is 5 more than 65. What is the number?

Ans: _____

20. A pole 10 metres long is 3 times as long as a rod. Find the length of the rod in metres. (Express your answer as a fraction in its simplest form.)

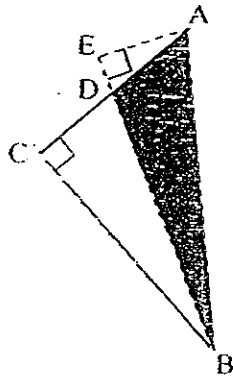
Ans: _____ m



21. Jane ate $\frac{5}{16}$ of a pie. Her brother ate $\frac{1}{4}$ of the pie. What fraction of the pie did they eat altogether?

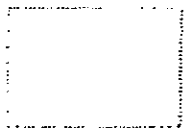
Ans: _____

22. In the shaded triangle ABD below, name the base that corresponds to the height BC.



Ans: _____

23. There are 42 pupils in a class. 22 of them are girls. What is the ratio of the number of boys to the number of pupils in the class?
(Express your answer in its simplest form.)



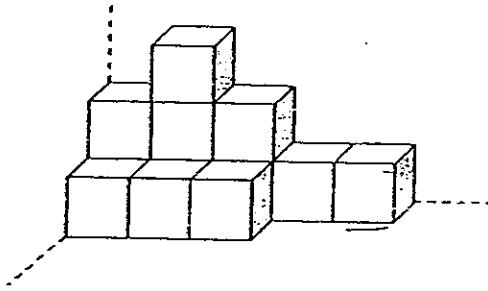
Ans: _____



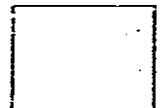
24. There are 56 members in the tennis club. The ratio of the number of members selected to take part in a tournament to those who are not selected is 3 : 5. How many members are not selected to take part in the tournament?

Ans: _____

25. The solid below is made up of 1-cm cubes. Find the volume of the solid.



Ans: _____ cm^3



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)

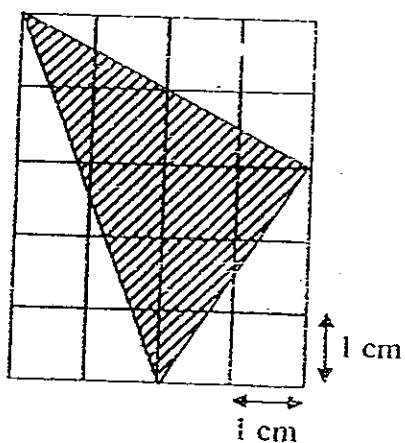
26. What is 60 hundreds more than 93 thousands?

Ans : _____

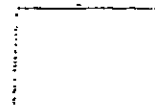
27. A bag weighs 3 times as much as a box. The difference in mass between the bag and the box is 66 kg. What is the total mass of the bag and the box?

Ans : _____ kg

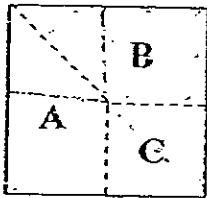
28. Find the area of the shaded triangle below.



Ans: _____ cm²

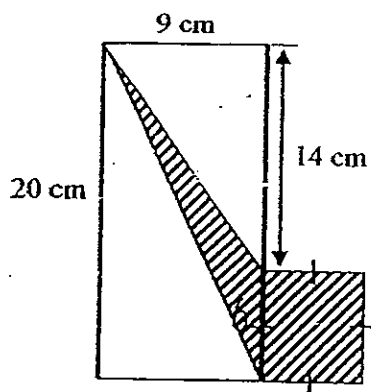


29. The figure below is a square made up of 3 parts A, B and C. C is a square and it is $\frac{1}{4}$ of the figure. What fraction of the figure is parts B and C?

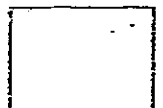


Ans: _____

30. The figure below is made up of a rectangle and a square. Find the area of the shaded part.



Ans: _____ cm^2



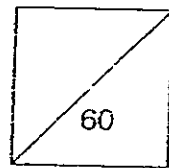


HENRY PARK PRIMARY SCHOOL
2008 SEMESTRAL EXAMINATION ONE
MATHEMATICS
PRIMARY 5

PAPER 2

Name: _____ ()

Class: Primary 5 _____



18 Questions
60 Marks

Total Time for Paper 2: 1 h 40 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

READ AND FOLLOW INSTRUCTIONS CAREFULLY.


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. An accessory shop sold hairclips at the prices shown below.

Hairclips for sale!

1 packet of 4 hairclips for \$3.00
Buy 3 packets of hairclips, get 1 packet free



The image shows two hairclips, one on the left and one on the right, each with a circular base and several prongs extending upwards.

Mary left the shop with 24 hairclips after making purchase
Mary bought 24 hairclips from the shop. How much did she pay for the hairclips?

Ans: _____

2. If $10 \times \square = \frac{1}{2}$, what is the missing fraction in the box?

Ans: _____



3. $\frac{3}{4}$ of the mass of a Box A is $\frac{1}{2}$ the mass of Box B. The mass of Box B is 9 kg, what is the mass of Box A?

Ans: _____ kg

4. Richard's pocket money is $\frac{3}{7}$ of Zaid's pocket money. If the sum of their pocket money is \$210, how much pocket money does Richard have?

Ans: \$ _____

5. The length of a rectangle is 14 cm and its breadth is 6 cm. What is the ratio of its length to its perimeter? (Express your answer in its simplest form.)

Answer : _____



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

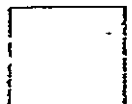
The number of marks available is shown in brackets [] at the end of each question or part-question. (50 marks)

6. Samuel sold 6 oven toasters and 2 rice cookers for \$790. If the rice cooker cost \$75 less than an oven toaster, find the cost of a rice cooker.

Ans: _____ [3]

7. $\frac{1}{5}$ of Simin's age is $\frac{2}{7}$ of Liping's age. In 4 years' time, their total age will be 59 years. How old is Liping now?

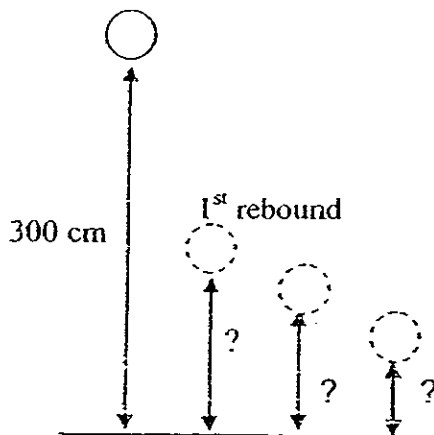
Ans: _____ [3]



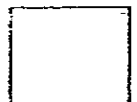
8. There were 8 girls in a computer class. The ratio of the number of boys to the number of girls in this class was 3 : 1. Six more boys joined the class. Find the new ratio of the number of boys to the total number of children in the computer class.

Ans: _____ [3]

9. A rubber ball rebounds to $\frac{2}{5}$ of the previous height each time it drops. If the ball is dropped from a height of 300 cm, how high will it rebound after 3 bounces?



Ans: _____ [3]



10. In a hall, there are rows of chairs. The 1st row has 2 chairs fewer than the second row. The 2nd row has 2 chairs fewer than the third. This pattern continues and there are 70 chairs in the 25th row. How many chairs are there in the 1st row?

Ans: _____ [3]

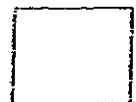
11. There were 115 apples in box A and 31 apples in box B. When an equal number of apples were added into each box, there were 3 times as many apples in box A than in box B. How many apples were added in each box?

Ans: _____ [4]

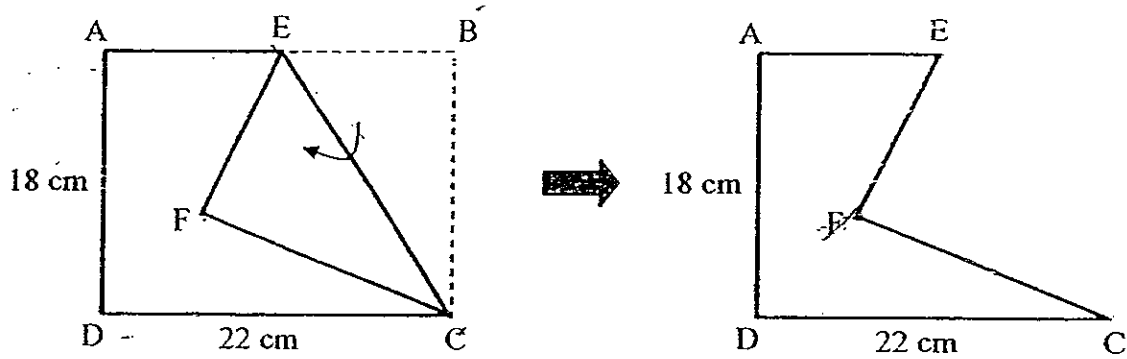


12. A container weighed 3 kg 305 g when it was filled with substance X. The same container weighed 1 kg 405 g when it was filled with substance Y. Substance X was thrice as heavy as substance Y. Find the mass of the container when it was empty.

Ans: _____ [4]

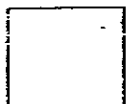


13. ABCD is a rectangular piece of paper. E is at the middle of AB. The piece of paper is folded along the line EC.
- Find the area of Triangle EFC.
 - If the paper is cut along the lines EF and FC, find the area of the remaining part of the paper.



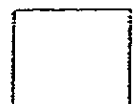
Ans: a) _____ [1]

b) _____ [3]



14. Moses had a total of 408 blue and green pens at first. He lost $\frac{3}{5}$ of his blue pens and bought another 32 green pens. Then the number of green pens he had was $\frac{1}{4}$ of the number of blue pens left. How many more blue pens than green pens did Moses have at first?

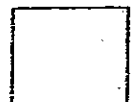
Ans: _____ [4]



15. Rina had some foreign and local postcards. The ratio of the number of local postcards to the number of foreign postcards was 7 : 4. After she gave half of the local postcards to her friend, she had a total of 225 postcards left.
- a) How many local postcards did Rina give her friend?
 - b) How many postcards did Rina have at first?

Ans: a) _____ [2]

b) _____ [2]



16. Muthu had 550 sticks of chicken satay and mutton satay in total. After selling $\frac{1}{13}$ of the chicken satay and 38 sticks of mutton satay, he had $\frac{1}{4}$ as many sticks of mutton satay as chicken satay left. How many sticks of chicken satay did Muthu have at first?

Ans: _____ [5]



17. An online test consists of 60 questions in total. For each correct answer, 3 points will be awarded while for each wrong answer, 2 points will be deducted. Benjamin completed the test and scored a total of 125 points. How many questions did Benjamin answer correctly?

Ans: _____ [5]



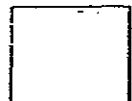
18. The ratio of the number of goldfish to the number of mollies in Tank A is $7 : 2$. The ratio of the number of goldfish to the number of mollies in Tank B is $5 : 4$. There are twice as many fishes in Tank A as in Tank B.
- (a) Find the ratio of the number of mollies in Tank A to the number of goldfish in Tank B.
- (b) After 27 goldfish are transferred from Tank A to Tank B, the ratio of the number of goldfish to the number of mollies in Tank A becomes $5 : 4$. Find the total number of fishes in Tank B now.

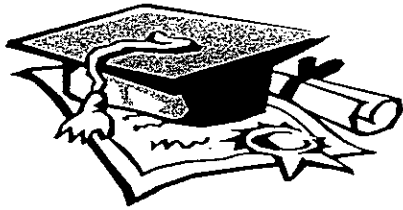
Ans: a) _____ [2]

b) _____ [3]

END OF PAPER

Setters: Mrs Josephine Lai & Mrs Belinda Lock





ANSWER SHEET

EXAM PAPER 2008

SCHOOL : HENRY PARK PRIMARY SCHOOL
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA 1

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

16) 3880560

17) \$580000

18) 120 peaches

19) 10

20) $3\frac{1}{3}m$

21) $\frac{9}{16}$

22) AD

23) 10:21

24) 35

25) $12cm^3$

26) 99000

27) 132kg

28) $8cm^2$

29) $\frac{5}{8}$

30) $63cm^2$

Paper 2

1) $24 \div 4 = 6$

$6 - 1 = 5$

$5 \times \$3.00 = \15.00

2) $\frac{1}{20}$

3) $9kg \div 2 = 4.5kg$

$4.5kg \div 3 = 1.5kg$

$1.5kg \times 4 = 6kg$

4) $3 + 7 = 10$

$10u = \$210$

$1u = \$210 \div 10 = \21

$3u = 3 \times \$21 = \63

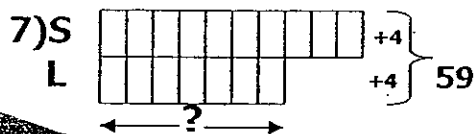
5) perimeter $\rightarrow 14cm + 14cm + 6cm + 6cm = 40cm$

$14:40 = 7:20$

$$6) \$75 \times 6 = \$450$$

$$\$790 - \$450 = \$340$$

$$\$340 \div 8 = \$42.50$$



$$59 - 8 = 51$$

$$51 \div 17 = 3$$

$$7 \times 3 = 21$$

$$8) 24 + 6 = 30$$

$$30 \div 8 = 3.75$$

$$30 : 38$$

$$= 15 : 19$$

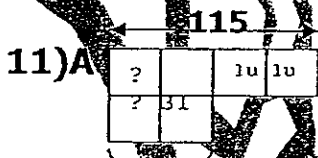
$$10) 24 \times 2 = 48$$

$$70 - 48 = 22$$

$$9) 300 \text{ cm} \times 2 / 5 = 120 \text{ cm}$$

$$120 \text{ cm} \times 2 / 5 = 48 \text{ cm}$$

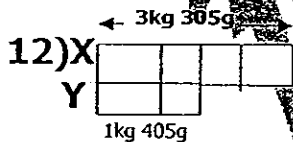
$$48 \text{ cm} \times 2 / 5 = 19.2 \text{ cm}$$



$$1u = 115 - 31 = 84$$

$$1u = 84 \div 2 = 42$$

$$42 - 31 = 11$$



$$2u = 3\text{kg } 305\text{g} - 1\text{kg } 405\text{g} = 1\text{kg } 900\text{g}$$

$$1u = 1900 \div 2 = 950\text{g}$$

$$C = 1405\text{g} - 950\text{g} = 455\text{g}$$

13) a) $\frac{1}{2} \times 11\text{cm} \times 18\text{cm} = 99\text{cm}^2$

b) $18\text{cm} \times 22\text{cm} = 396\text{cm}^2$

$$99\text{cm}^2 \times 2 = 198\text{cm}^2$$

$$396\text{cm}^2 - 198\text{cm}^2 = 198\text{cm}^2$$

14) $408 + 32 = 440$

$440 \div 11 = 40$

$40 - 32 = 8$ green

$408 - 8 = 400$ blue

$400 - 8 = 392$

15) $15u \rightarrow 225$

$1u \rightarrow 15$

a) $15 \times 7 = 105$

b) $225 + 105 = 330$

16) $16u \rightarrow 550$

$550 - 38 = 512$

$512 \div 16 = 32$ (1u)

$13u \rightarrow 32 \times 13 = 416$

17) $60 \times 3 = 180$

$180 - 125 = 55$

$3 + 2 = 5$

$55 \div 5 = 11$

$60 - 11 = 49$

18) a) $4:5$

b) $14 - 5 = 9$

$9u = 27$

$1u = 27 \div 9 = 3$

$5 + 9 = 14$

$14u = 14 \times 3 = 54$

