

HENRY PARK PRIMARY SCHOOL 2011 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET A)

Name: _____()

Class: Primary 6

Marks:

Marks.		
Paper 1	Booklet A	/20
	Booklet B	/20
Paper 2		/60
Total	. <u>.</u>	/100

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.

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The use of calculators is <u>NOT</u> allowed.

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, 4). Shade the oval (1, 2, 3, 4) on the Optical Answer Sheet.

- 1. Mr Lim bought a car for about \$119 000 when rounded off to the nearest thousand. Which of the following could be the actual cost of the car?
 - (1) \$118 095
 - (2) \$118 495
 - (3) \$119 259
 - (4) \$119 625

2. Which of the following is equal to $5\frac{1}{3}$?

(1) $5 \div \frac{1}{3}$

(2) $5 \times \frac{1}{3}$

(3) $16 \times \frac{1}{3}$

(4) $16 \div \frac{1}{3}$

3. Jean left for her school when her watch showed 7.45 a.m. Her watch was 10 minutes slow. She took 55 minutes to travel to her school for extra lessons. When she arrived, she found that she was 10 minutes early for her class. What time was her class supposed to start?

- (1) 8.20 a.m.
- (2) 8.40 a.m.
- (3) 8.50 a.m.
- (4) 9.00 a.m.

4. The figure below shows part of a ruler. What is the best estimate of the reading indicated by the arrow?



- (1) 10.3 cm
- (2) 10.1 cm
- (3) 9.6 cm
- (4) 9.4 cm

5. Sally represented the amount of money she spent on groceries, food and clothes using a pie chart. She spent $\frac{5}{8}$ of her money on groceries, $\frac{1}{4}$ of her money on food and the remaining amount on clothes. Which of the following pie charts can be best used to represent the information given above?



- 6. David's average score for 2 tests was 70. David obtained an average score of 74 after the third test. What was the score of his third test?
 - (1) 48
 - (2) 72
 - (3) 78
 - (4) 82

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up 7. Each figure below is made of 16 squares. Four squares in each figure are shaded. Which of the following figures will have a line of symmetry when 1 more square is shaded?







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8. What is the sum of 8 tenths and 12 thousandths?

- (1) 0.092
- (2) 0.200
- (3) 0.812
- (4) 0.902

9. The figure below shows a cube.

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Which one of the following is not a net of the cube?









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- 10. Mandy is 168 cm tall. She is y cm shorter than her sister. What is their total height?
 - (1) (168 + y) cm
 - (2) (168 y) cm
 - (3) (336 + y) cm
 - (4) (336 y) cm
- 11. Mr Lim had some red and green beads. 60% of his beads were red and the rest were green. He lost some of his red beads and the percentage of the beads which were red decreased by 40%. He then had 760 red and green beads left. How many red beads did he lose?
 - (1) 190
 - (2) 240
 - (3) 285
 - (4) 360
- 12. The table below shows the number of hours spent on computer games per week by each pupil from a class.

Number of hours spent to pupil on computer game		1	3	?	
Number of pupils	· .	6	8	10	

There are 24 pupils in the class. The average number of hours the pupils spent on computer games was 5 hours. What is the missing number in the table?

- (1) 15
- (2) 12
- (3) 9
- (4) 4

13. In the figure, WXYZ is a square and UVZ is an isosceles triangle. \angle WUZ = 75° and \angle UVX = 51°. Find \angle UZV.



- (1) 36°
- (2) .48°
- (3) 66°
- (4) 68°
- 14. George and Henry had \$1080 altogether. When Henry gave $\frac{1}{6}$ of his money to George, they had the same amount of money. How much money did George have at first?
 - (1) \$108
 - (2) \$432
 - (3) \$648
 - (4) \$720









(3) 40 (4) 120 r_{1}



HENRY PARK PRIMARY SCHOOL 2011 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET B)

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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.

The use of calculators is NOT allowed.



.19. A piece of string of length 110 cm were cut into identical pieces. 10 cuts were made on the string to obtain the identical pieces. What is the length of 1 piece in this space of string?

Ans: _____cm

Score

20. The shaded figure below is formed with 3 big and 3 small equilateral triangles. The length of the straight line AB is 63 cm. What is the perimeter of the shaded figure?

 A						В
		· · ·	63 cm		in the second	
	;			Ans:_		cm

Use the information below to answer questions 21 and 22.

The pie chart below shows the enrolment of different types of CCA in a school. The enrolment of the Badminton CCA is twice the enrolment of the Table Tennis CCA.



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21. What is the ratio of the enrolment of the Gymnastics CCA to the Science Club CCA?

Ans:

Do not write

in this space

Score

22. The enrolment of the Science Club CCA was 8 more than the Table Tennis CCA. What was the enrolment of the Badminton CCA?

Ans:____

10

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stickers and James	gave away $\frac{1}{4}$ of h	is stickers, Jan	nes had 27	stickers	left.	
How many stickers o	· •		•			
	·	_		,		e e gener
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1						•
:			Ans:			
A glass bottle filled bottle when filled wi						
is five times the ma	ss of each marble	. What is the r	nass of the	empty g	tass	
bottle?	-		_ !			•
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<u>.</u>			Aas:		g	
			Ans:		g	
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HENRY PARK PRIMARY SCHOOL 2011 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 2

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Q.044.

Name:_____(

Class: Primary 6_____

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.

- 1.

Write your answers in this booklet.

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



Do not write ે છે. **BICYCLES FOR HIRE** in this space Charges per hour for bicycles Small bicycles \$4 Medium bicycles \$6 \$8 **Big bicycles** Get an additional half an hour free for every 1 hour of rental Terrence hired a small, a medium and a big bicycle from 9 a.m. to 1 p.m. How much did he pay for hiring the bicycles? . Ans: \$ 4. Andre, Benny, Chris share a total of \$1144. Andre and Benny have \$778 and Benny and Chris have \$649. How much money does Benny have? Ans: \$ B. Mrs Tan recorded the test scores of her class of 30 pupils and calculated the average to be 81. One of her pupils' score of 81 was incorrectly recorded as 51. What was the correct average score of the test? Ans:_ Score

For questions 6 to 18, show your working clearly 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.

Do not write in this space

[3]

[2]

[1]

Score

.8: There were <u>76</u> more apples than oranges in a fruit stall. After <u>68</u> apples and 227 oranges were <u>sold</u>, the number of apples left was 6 times that of the number of oranges left. What was the total number of apples and oranges at the fruit stall at the start?

7. The average age of 3 girls is x years. The oldest girl is 16 years old and the youngest girl is half as old as the oldest girl.

Ans:

Ans: (a)

(ø)

- (a) What is the age of the third girl?
- (b) If x = 13, what is the age of the third girl?

8. Each of the figures below is made up of 1-cm sticks.

. :



The table below shows the number of sticks used for each figure and the perimeter of each figure.

Figure Number	Number of 1-cm sticks	Perimeter
11	12	6
22	23	10
3	34	14
4		

(a) Complete the table for Figure 4.

[1]

(b) Which Figure Number will have a perimeter of 1298 cm?

Ans: (b)

e net

Score

[2]

Do not write in this spac Ø Water was drained from a tank from 2 taps, Tap A and Tap B attached to it. Water was first drained from Tap A and after 6 minutes, water was also drained from Tap B. Both taps were then turned off at the same time after a period of time.

The graph below shows the amount of water in the tank over 12 minutes.



In one minute, how many litres of water were drained out from Tap B?

5

Ans:

[3]

 $1\overline{\mathcal{B}}$. The figure is made up of a circle, identical semicircles and a square of side 12 cm. P is the centre of the circle.

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What is the area of the shaded figure? Leave your answer correct to two decimal places.

6

1-2-24

Ans:

[3]

11. One side of a garden was double-fenced. The outer fencing had 3 wooden spokes along a length of 0.4 m and the inner fencing had 9 metal spokes along a length of 180 cm as shown in the diagram below.

Do not write in this space





12. ABCD is a square and CDE is an equilateral triangle. AC and DF are straight In this s



(b) Find the value of $\angle y$.

Ans: (A)

(1)

[2]

[2]

13. Three boxes, A, B and C contained a certain number of counters. Box C contained $\frac{1}{4}$ as many counters as A and B. There were 98 more counters in Box A than in Box C. Box B contained 174 more counters than Box C.

Do not write in this space

(a) How many counters did the three boxes contain altogether ?

(b) How many counters were in Box B?

9

Ans: (a)

(Ø):

[3]

[2]

14. The figure shows an empty container made up of three cuboids. 28.9 litres of water is poured into one of the top cuboids into the cuboid below.
Do not write in this space



-. As 5 d .

Ans:

[5]

Score

15. Mr Lee packed some oranges into big boxes and apples into small boxes. Each big box contained 50 oranges and each small box contained <u>30 apples</u>. After packing, there were 12 more big boxes than small boxes. Given that there were 1240 fewer apples than oranges, how many oranges were there?

Do not write in this space

[5]

Score

Ans:

16. Mr Lee took 7 hours to travel from Town A to Town B while Mr Wong took 8 hours to travel from Town B to Town A. Both of them did not change their speed throughout the journey. Both of them started off at the same time and moved towards each other. 3 hours later, they were 110 km apart. What was the speed Mr Lee was driving?

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Ans:

[4]

17. There were 1000 students at the parade ground and indoor sports hall. 40% of the 600 students at the parade ground were girls. 60% of the students at the indoor sports hall were girls. After some students in both venues moved from one venue to the other, 30% of the students in the parade ground and 70% of the students at the indoor sports hall were girls. How many students were there in the indoor sports hall after the movement had taken place?

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10.47

Ans:

[4]

18. A large warehouse had a total of 2180 black, red and white T-shirts for sale. The ratio of the number of black T-shirts to the number of red T-shirts was

many red T-shirts did the warehouse have at first?

Do not v in this st

3:1. After $\frac{2}{5}$ of the black T-shirts, $\frac{1}{3}$ of the white T-shirts and none of the red T-shirts were sold on the first day, there were 1504 T-shirts left. How

Setters: Mrs Priscilla Heng & Mrs Irene Tan



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Ans:

[4]

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EXAM PAPER 2011

SCHOOL : HENRY PARK * SUBJECT : PRIMARY 6 MATHEMATICS

TERM : PRELIMINARY



13)1u + 174 = 3u - 981u = 3u - 272 3u - 1u = 2u $2u \rightarrow 272$ 272/2 = 136a)136 x (4+1) = 680 b)(136x3) - 98 = 310

- 14)28.9L = 28900cm3 40cm x 28cm x 25cm = 28000cm3 28900cm3 - 28000cm3 = 900cm3 7cm x 6cm = 42cm2 8cm x 6cm = 48cm2 48cm2 + 42cm2 = 90cm2 900÷90 = 10 25 + 10 = 35cm
- $15)30 \times 1u = 30u$ 50x (1u+12) = 50 u + 600 30u + 1240 = 50u + 600 30u + 640 = 50u 50u - 30u = 20u $20u \rightarrow 640$ 1u = 32 32 + 12 = 44 $44 \times 50 = 2200$

16)3/7 + 3/8 = 45/56 1-45/56 = 11/56 56/11 x 110km = 560m 560km/7h = 80km/h

17)450

18)380

en pares.