

HENRY PARK PRIMARY SCHOOL 2016 SEMESTRAL EXAMINATION 1 MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET B)

Name:	
of the second se	
Class: Primary 6	20

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.

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.

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(10 marks)

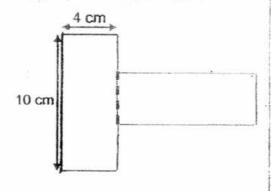
16 Express 8.02 as a mixed number in its simplest form.

Ans: _____

Use the digits 9, 5, 4 and 2 to form a 4-digit number that is closest to 5000. Each digit can only be used once.

Ans:

The figure below is made up of two identical rectangles. Each rectangle measures 10 cm by 4 cm. Find the perimeter of the figure.



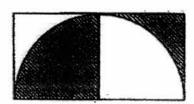
Nns: _____ cm

The figure below is made up of 2 identical squares of side 7 cm.

A semi-circle is drawn inside the figure. Find the area of the shaded part.

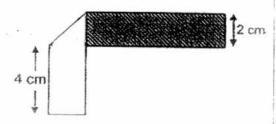
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 $(\text{Take } \pi = \frac{22}{7})$



Ans: cm

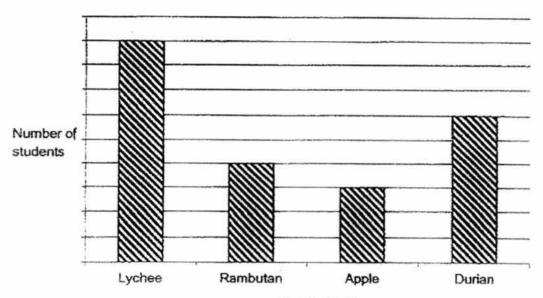
A rectangular piece of paper measuring 14 cm by 2 cm is folded into the shape as shown below. What is the area of the shaded part?



Ans: _____ cm²

21	The following bar graph shows the favourite fruits voted by some students.
	Each student could only vote once.

Do not write in this space



Types of fruit

Given that 6 students voted for "Apple" as their favourite fruit, find the total number of students.

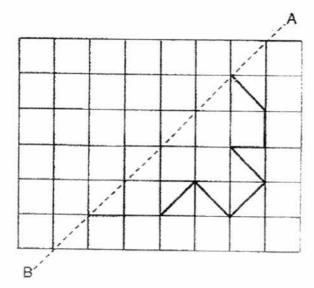
Ans:	
Ans:	

22 The table below shows the time taken by 5 different runners in a race.

Runner	Time taken in seconds
Ali	14.4
Ben	14.9
Charles	13.8
Dinesh	13.7
Eric	14.6

What was the average time taken by the two slowest runners?

Ans:	seconds



A car travelled 60 km from 16 00 to 16 40. What is the average speed at which the car travelled?

Ans: km/h

25 The ratio of the cost of one shirt to the total cost of one shirt and 2 similar blouses is 3 : 7. Given that each blouse costs \$30, find the cost of one shirt.

Ans: \$_____

Do not write, in this space

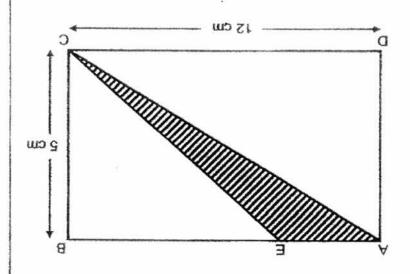
Questions 26 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

CLUS

The figure below is not drawn to scale. ABCD is a rectangle. EB is $\frac{2}{3}$ the length of AB. Find the area of the shaded region.

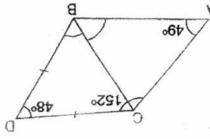
97



72

In the figure, CBD is an isosceles triangle and ACD is 152°. Find ACBA.

anA



2



Cupcakes on Sale

\$2 each 5 and get 1 free

What is the least amount of money needed to buy 30 such cupcakes?

	\$:snA	
on the discounted price.	The usual price of a handbag is \$250. Michelle given a 20% discount. She had to pay a 7% GST How much did she pay for the handbag in the end?	30
	'suy	
Partie of Edward w	්සම වැට වේදාව දැලිද සමවර්ද පුරිස ^{ම්} ව ද ය. එම දුරුණු	
	hall. How many children were there in the sports ha	
em are girls. After $\frac{1}{4}$ of the strong in the sports	There were some children in a sports hall. $\frac{2}{5}$ of the girls had left, there were 36 more boys than girls re	6Z
	\$:suA	
*		



HENRY PARK PRIMARY SCHOOL 2016 SEMESTRAL EXAMINATION 1 MATHEMATICS PRIMARY 6

PAPER 2

*	Parent's Signature
Name:	
Class: Primary 6,	60

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.

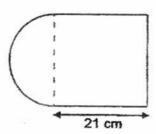
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not write in this space

(10 marks)

The figure below is formed by a square and a semicircle. Find the perimeter of the figure.

$$(\text{Take } \pi = \frac{22}{7})$$



Ans: _____ cm

Ann, Beth and Cindy shared some cookies in the ratio 2:3:7 respectively. Each of them received an average of 324 cookies. How many more cookies did Cindy receive than Ann?

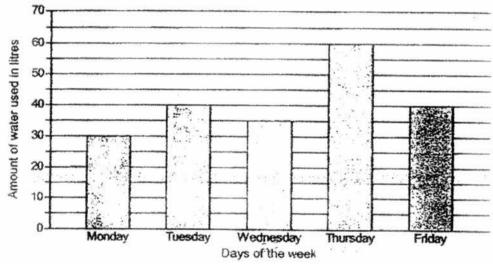
Ans: _____

Jack has less than 50 sweets. If he packs the sweets in bags of five, he will have 4 sweets left. If he packs them in bags of seven, he will have 5 sweets left. How many sweets does Jack have?

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Ans:				
	-		 	 -

4 The table below shows the amount of water Jenny used during her shower from Monday to Friday last week.



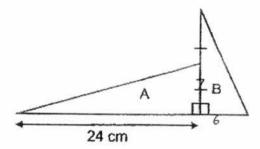
What was the average amount of water used on each day from Monday to Friday?

Ans:	litres
	nuco

In the figure below, A and B are right-angled triangles.

The base of triangle A is 24 cm. The base of triangle A is 4 times the base of triangle B. The height of triangle B is twice the height of triangle A. Given that the area of triangle A is 84 cm², what is the area of triangle B?

Do not write in this space



Ans: _____ cm²

spaces	provided. The number of marks available is shown in brackets [in the and	Do not write in this space
or each	question or part-question.	(50 marks)	
5	Salmah paid \$21.10 for 2 bowls, 3 plates and 4 cups. Each bowl cost 3 times as much as each cup. Each plate cost \$ than each bowl. What was the cost of one plate?	1.20 less	
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	Ans:	e next page)	
	4	ront page)	

7 The table below shows the prices of pencils and notebooks sold at a bookshop.

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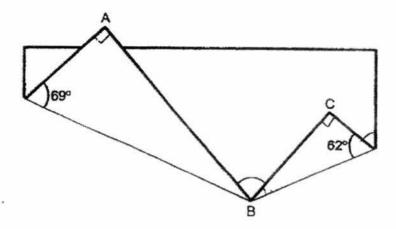
Item	Price per item
Pencil	ρ cents
Notebook	(3p - 5) cents

- (a) Siti bought 4 pencils and 1 notebook. Express the amount of money that she spent at the bookshop in terms of p in its simplest form.
- (b) Ming Wen paid \$7.50 for 8 pencils and some notebooks. If p = 30, how many notebooks did he buy?

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

8 A rectangular piece of paper was folded at two of its corners, A and C, as shown below. Find ∠ABC.

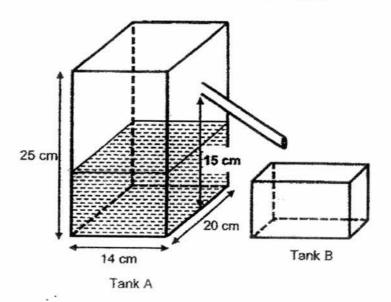
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Ans: _____[3]

Tina had two rectangular tanks as shown below. Tank A was $\frac{2}{5}$ full. There was a pipe attached to Tank A, 15 cm from the base, where water can flow out of it and into Tank B. When Tina poured 1.7 litres of water into Tank A, how much water will flow out of Tank A into Tank B?

Do not write in this space

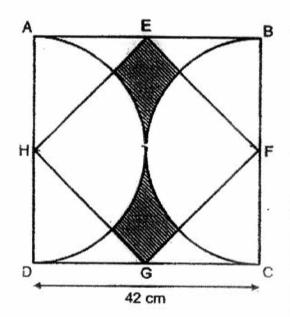


Ans:	[2]
, wio.	[3]

The figure below is made up of 2 squares, ABCD and EFGH, and 2 identical semicircles. E is the mid-point of AB and G is the mid-point of DC. Find the total area of the shaded parts.

Do not write in this space

 $(\text{Take }\pi = \frac{22}{7})$



Ans: [3]

11	$\frac{2}{3}$ of the	remaining tid	ckets were	at \$75 each, to sold at \$60 each s the total amo	ach and the r	est of the	e tickets
	the sale o	f tickets?					
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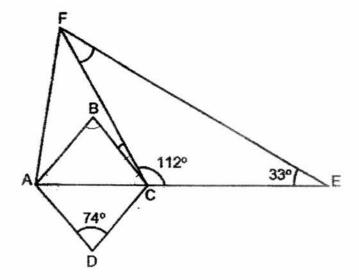
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Mr Suraj saves 40% of his salary every month. He gives $\frac{4}{15}$ of the remainder 12 in this space to his wife and divides the remaining amount of his salary equally among his two parents and two daughters. Given that both of his daughters receive a total of \$352 from him, find Mr Suraj's monthly salary. Ans:

The figure below is not drawn to scale. ABCD is a rhombus and ACE is a straight line. Do not write in this space

- (a) Find ∠CFE.
- (b) Find ∠BCF.



Ans: (a)		[1]
100	C Property and the	1,1

(b) _____[3]

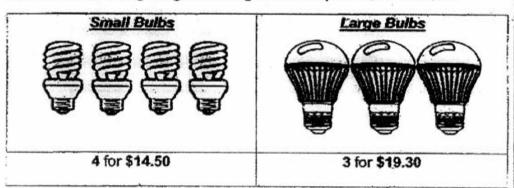
14	Bernice and Andrew drove from Town G to Town H. Bernice drove at an average speed of 90 km/h and took 40 min to reach Town H. Andrew drove at an average speed of 80 km/h and reached Town H later than Bernice by 3 minutes.							
	(a) What was the distance between Town G and Town H?							
	(b)	How many minutes earlier did Andrew start driving than Bernice?	RECEIPTION TO SERVICE STATES AND ADDRESS A					
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		es established to the control of the						
9	24%	Ans: (a) [1]						
		(b)[3]						
		(Go on to the next page)						

15 There were some chicken pies, beef pies and mutton pies for sale at a bakery. $\frac{3}{5}$ of the pies were chicken pies. The ratio of the number of beef pies to the number of mutton pies was 7 : 3. There were 56 fewer beef pies than chicken pies. After some beef pies were sold, 30% of the remaining pies in the bakery were beef pies and mutton pies. How many beef pies were sold?

Do not write in this space

Ans:	[4]

16



- (a) Mr Lim bought 40 small bulbs and 66 large bulbs to fix in his office. He fixed an equal number of small bulbs in each room in his office and had 1 small bulb left. He also fixed an equal number of large bulbs in each room in his office and had 1 large bulb left. How many rooms were there in Mr Lim's office?
- (b) $\frac{2}{5}$ of the bulbs that Mr Wong bought were small bulbs. Given that he paid \$159.30 in total, how many bulbs did Mr Wong buy altogether?

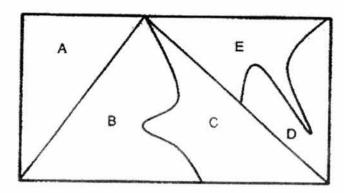
in a literary agent tageneer \$ \$\$ energy of a

Ans: (a)	[2]

(b) [3]

17 The rectangle below is divided into 5 parts, A, B, C, D and E.

Do not write in this space



The ratio of the area of A to the area of D to the area of E is 5:3:4. The ratio of the area of A to the area of B is 3:4.

- (a) Find the ratio of the area of B to the area of C to the area of E in the simplest form.
- (b) Given that the area of A is 90 cm², find the area of the rectangle.

Ans: (a)	X 1 * "1* " X	[3]
(b)		[2]

There were some green and red apples in a box. Ted took out $\frac{2}{11}$ of the green apples from the box. He replaced each of these green apples taken out with red apples. After that, he took out $\frac{2}{5}$ of the green apples and $\frac{1}{3}$ of the red apples. There were 108 green apples and 228 red apples left in the box in the end. What was the total number of green and red apples in the box at first?

Do not write in this space

A		
Ans:		15

End of Paper

Setters:

Mr Jentry Tseng, Mdm Ong Li Ling, Miss Veronica Yeo

Henry Park Primary School 2016

Semestral Examination 1 Mathematics Primary 6

Paper 1 Booklet A

Q1	4	Q2	1	102					
	-		1	Q3	2	Q4	4	Q5	1
Q6	2	Q7	2	Q8	2	Q9	-		4
Q11	1	Q12	-		3	Q9	1	Q10	3
	-	1 412	3	Q13	3	Q14	2	Q15	2

Paper 1 Booklet B

Q16. $8\frac{1}{50}$

Q17.4952

Q18. 48cm (10x4+4x2)

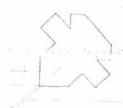
Q19. 49cm² (7x7)

Q20. 16cm² (8x2)

Q21. 44 (12+18+8+6)

Q22. 14.75s (14.6+14.9)/2

Q23.



Q24. 45km/h (60/40x60)

Q25. \$45 (60/4x3)

Q26. 10cm²

Q27. 45 (360-49-152-48-66)

Q28. \$50 (10x5)

Q29. 120 (36/3x10)

Q30. \$214 (200*1.07)

Paper 2

- Q1. 96cm (96+33)
- Q2. 405 (972/12x5)
- Q3. 19 (15+4 and 14+5)
- Q4. 41 (205/4)
- Q5. 42cm² (84/24x2, 1/2x6x14)
- Q6. \$2.70 (21.10+3.60=24.70, 24.70/19=1.3,1.3x3-1.20=2.70)
- Q7. (a) (7p-5) cents (b) 6 (8x0.3=2.40, 7.5-2.4=5.1, 5.1/0.85=6)
- Q8. 82 ((90-69)x2, (90-62)x2, 180-42-56=82)
- Q9. 0.3 (15X20X14=4200, 10x20x14=2800, 2.8+1.7=4.5, 4.5-4.2=0.3)
- Q10. 189cm² (2x0.5x42x21=882, 22/7x21x21x0.5=593, 882-693=189)
- Q11. 59895 (693x75=3, 693/9x2=198, 198/3x2x60=7920, 7920+51975=59895)
- Q12. 1600 (352X2=704, 704/11x15=960, 960/6x10=1600)
- Q13. (a) 35 (180-112-33) (b) 15 ((360-74-74)/2=106, 106/2=53, 180-112-53=15
- Q14. (a) 60km (4/6x90) (b) 2min (60/80=0.75 0r 45 mins, 45-40-3=2)
- Q15. 25 (C:B:M=15:7:3 \rightarrow 105:21:49, total = 150, 45-21=24, 49-24=25)
- Q16. (a) 13 (40-1 =39, 66-1=65) (b) 30
- Q17. (a) 20:16:12 \rightarrow 5:4:3 (total = 72) (b) 450 (15u=90, 72u = 450)
- Q18.522