

HENRY PARK PRIMARY SCHOOL 2014 SEMESTRAL EXAMINATION 1 MATHEMATICS PRIMARY 5

PAPER 1

Name:()		
Class: Primary 5	40	

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.

For ea	ons 1 ach of e the provid	to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. the questions, four options are given. One of them is the correct correct answer (1, 2, 3 or 4). Shade the correct oval on the Optica ed.	answ I Ansv	er. ver
1.	In 9 3	17 548, what does the digit 3 stand for?		
	(1)	3000		
	(2)	30 000		
	(3)	300 000		
	(4)	3 000 000	()
2.		305 = 800 000 ++ 300 + 5 t is the missing number in the box above?		
	(1)	87		
	(2)	8700		
	(3)	80 700	,	
	(4)	87 000	()
3.	Find	the value of 45-(6+21)÷3×2.		
	(1)	12		
	(2)	27		
	(3)	3	,	X
	(4)	40	(,

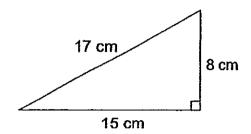
4. Fitri made a bracelet using 8 blue beads and 14 yellow beads. What fraction of the beads on the bracelet were yellow?

(

)

- $(1) \qquad \frac{4}{7}$
- (2) $\frac{7}{4}$
- (3) $\frac{4}{11}$
- (4) $\frac{7}{11}$
- 5. Find the value of $1\frac{5}{12} + 1\frac{3}{4}$:
 - (1) $2\frac{1}{6}$
 - (2) $2\frac{2}{3}$
 - (3) $3\frac{1}{6}$
 - (4) $3\frac{1}{12}$

6. Find the area of triangle shown below.



- (1) 40 cm²
- (2) 60 cm²
- (3) 68 cm²
- (4) 120 cm^2 (

)

7. There are 24 girls and 16 boys in a class. What is the ratio of the number of girls to the total number of pupils in the class?

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

8. Grace has 6 times as many stamps as Joyce and twice as many stamps as Ellen. What is the ratio of the number of stamps Joyce has to the total number of stamps the three girls have?

- (1) 1:10
- (2) 1:9
- (3) 1:8
- (4) 1:6

9. A fish tank has a capacity of 13 litres. It contains $8\frac{3}{4}$ litres of water. How much water is needed to fill the fish tank to the brim?

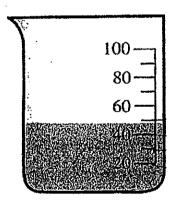
$$(1) \qquad 4\frac{1}{4}\,\ell$$

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

(3)
$$5\frac{1}{4}$$
 (

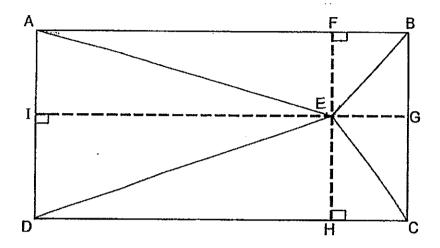
10. What could be the volume of water in the beaker shown below?

)



- (1) 44 ml
- (2) 45 ml
- (3) 48 ml
- (4) 52 ml

11. ABCD is a rectangle. What is the height of triangle ABE, given that its base is AB?



)

- (1) BC
- (2) BG
- (3) EB
- (4) EG

12. The ratio of the length of a rectangle to its breadth is 7 : 3. The breadth of the rectangle is 12 cm. What is its length?

- (1) 28 cm
- (2) 40 cm
- (3) 36 cm
- (4) 84 cm

13.	A ma	chine can print 90 pages in 3 minutes. How many such pages can		
	the m	achine print in 15 minutes?		
	(1)	18		
	(2)	270		
	(3)	450		
	(4)	1350	()
14.		e are 20 swimmers in class 5E. $\frac{3}{5}$ of the swimmers are boys. How		
	many	girls are there in class 5E given that $\frac{1}{3}$ of the girls in class 5E are		
	swim	mers?		
	(1)	8		
	(2)	12		
	(3)	24		
	(4)	36	(.)
15.		stangular tank 25 cm long, 10 cm wide and 42 cm high is half filled		
***	" with '	water. What is the volume of the water in the tank?		
	(1)	525 cm ³		
	(2)	1050 cm ³		
	(3)	5250 cm ³		
	(4)	10 500 cm ³	(,)

NA	ME:					
	ASS: P5					
Que que	oklet B : estions 16 to estions which marks)	25 carry 1 r require unit	nark each. ls, give you	Write your a r answers ir	answers in the spaces provided. F n the units stated.	For
16.	Write eight	million, two	hundred a	nd forty tho	usand and sixty-seven in figures.	
					Ans:	
17.	Find the val	lue of 24 ×	12 000.			
					Ans:	-
18.	Which one	of the follow	ing numbe	s is exactly	divisible by 20?	
		1090	1250	2170	2500	
					Ans:	
•				•		-

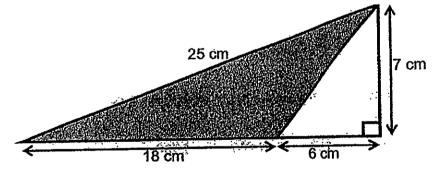
19. Find the value of $\frac{5}{3} \times \frac{2}{15}$. Express your answer in its simplest form.

Ans: _____

20. Express 12 minutes as a fraction of 2 hours in its simplest form.

Ans: _____

21. Find the area of the shaded triangle in the figure below.



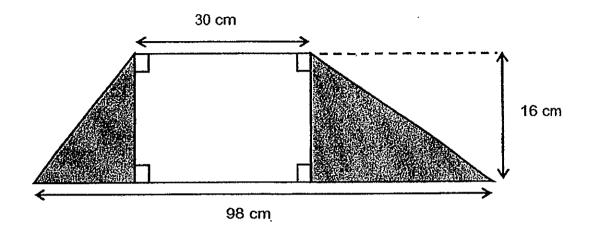
Ans: ____cm

22.	2. 3 boys share some stamps in the ratio of 5 : 3 : 2. Given that the smallest share is 126, find the largest share.			
23.	18: 39 = : 13 What is the missing number in the box?	Ans:		
24.	Find the capacity of a rectangular tank measurir	Ans: ng 30 cm by 25 cm by 10 cm.		
	4 ℓ 75 mℓ = mℓ. What is the missing number in the box?	Ans:cm ³		
	-	Ans:		

		•				
Que	stions 26 to 30 carry 2 marks each. Show your working	clearly in the space provided				
for e	for each question and write your answers in the spaces provided. For questions which					
requ	ire units, give your answers in the units stated.	(10 marks)				
2 6.	A number, multiplied by itself and then divided by 3, given the number.	ves an answer of 27. Find				
		Ans:				
27.	There are a total of 88 apples and oranges at a fruit sta					
	oranges is 4:7. How many more apples than oranges stall?	are there at the fruit				
	stan :					
•						
		•				

28.	The length of a cube is 4 cm. What is the volume of 15 such cubes?
	• · · · · · · · · · · · · · · · · · · ·
	Ans: cm ³
29.	A group of pupils were at a school carnival. $\frac{3}{8}$ of them were boys. Given that 15
	girls were at the carnival, how many boys were there at the school carnival?
	. Ans:
	·

30. In the figure below, find the total area of the shaded region.



Ans: _____ cm²



HENRY PARK PRIMARY SCHOOL 2014 SEMESTRAL EXAMINATION 1 MATHEMATICS PRIMARY 5

PAPER 2

Name:()	
Class: Primary 5		60

18 Questions 60 Marks

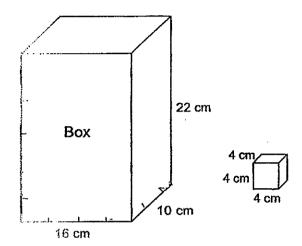
Total Time for Paper 2: 1 h 40 min

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3. Some 4-cm cubes are put into the box below. What is the maximum number of cubes that can be put into the box?



Ans: _____

4. $\frac{5}{6}$ of Samantha's savings is the same as $\frac{2}{5}$ of John's savings. What fraction of their total savings is John's savings?

Ans: ____

Jeremy is 40 kg. Kelvin is 24 kg heavier than Jeremy.
 Larry is half as heavy as Kelvin.
 What is the ratio of Larry's mass to Jeremy's mass?
 (Give your answer in the simplest form)

Ans: _____

For questions 6 to 18, show y and write your answers in the The number of marks available part-question. (50 marks)	spaces provided.		
\$83 000 and paid the re	tht an apartment for \$443 emaining amount in month the monthly instalment?		
		Ans:	[3]

7.	A sum of \$55 000 was given to a school to purchase laptop were purchased at \$1288 each. What was the maximum nullaptops the school could purchase with the remaining amount	mber of additional
	Ans:	[3]

8. Mrs Tan had a crate of fruits. $\frac{3}{5}$ of the fruits in the crate were apples. $\frac{1}{4}$ of the remainder fruits in the crate were oranges and the rest were pears. There were 54 more pears than oranges. What was the total number of fruits in the crate?

Ans: _____[4]

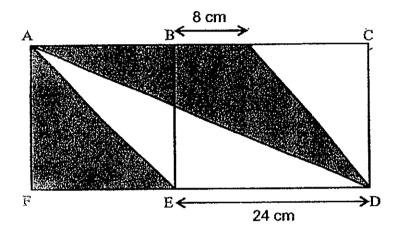
9. Andy had \$60 more than Betty at first.
Andy spent ²/₅ of his money and Betty spent ¹/₂ of her money at the bookshop.
After that, Andy had three times as much money as Betty.
How much money did Andy have at first?

Ans: _			[4]
	-		

10. The figure below is made up of a square ABEF and a rectangle BCDE.

The length of the square is $\frac{3}{4}$ the length of the rectangle.

Find the total area of the shaded regions.



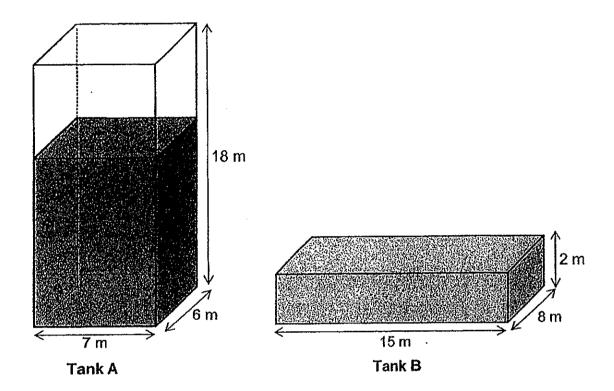
Ans: _____[3]

		•
11.	Justin, Max and Emily shared a packet of sweets in the ratio 3:2:9.	
	Emily had 48 more sweets than Justin and Max.	
	How many sweets were there in the packet altogether?	
	now many sweets were there in the packet altogether:	
	•	
	•	
•		ro*
•	Ans:	[3]
	•	

12. The figure below shows two rectangular tanks, Tank A and Tank B.

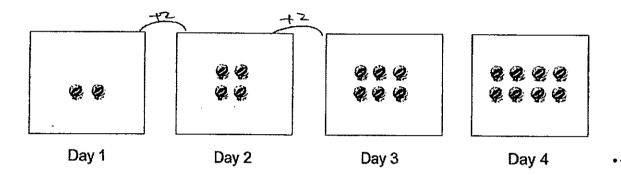
Tank A is $\frac{2}{3}$ filled with water while Tank B is fully filled with water.

How much more water is there in Tank A than Tank B?



Ans: [3]

13. The figure below shows the number of marbles Joseph bought from a shop each day. For each subsequent day, Joseph bought two more marbles than the previous day.



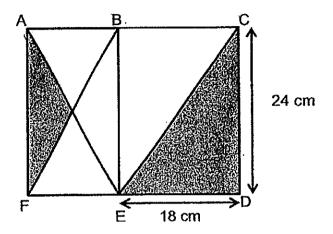
- a) How many marbles will Joseph buy on Day 30?
- b) At the end of Day 48, how many marbles would Joseph have bought in all?

14.	In a cinema, each row had the same number of seats. Jack sat on one of the seats
	in the cinema. There were 5 seats on his left and 14 seats on his right. There were
	9 rows in front of him and 15 rows behind him. How many seats were there in the
	cinema altogether?
	-
•	
	·
	, , , , , , , , , , , , , , , , , , , ,
	Ans:[4]

15. At a theme park, $\frac{2}{3}$ of the visitors were children and the rest were adults. $\frac{1}{4}$ of the adults were men and $\frac{3}{8}$ of the children were girls. Given that there were 320 more women than men, how many boys were there at the theme park?

Ans: ______[5]

16. In the figure below, rectangle ACDF is made up of two rectangles ABEF and BCDE. The area of the rectangle ACDF is 672 cm². Find the total area of the shaded regions.



•	
Ans:	[4]

	-
17.	Sharon and Alex had a number of erasers in the ratio of 3:1. Sharon and Roy had a number of erasers in the ratio of 4:5. Sharon, Alex and Roy had a total of 155 erasers altogether. How many more erasers did Roy have than Alex?
	•
	-
	Ans: [4]
-	

-END OF PAPER- Setters: Ms Chin Lian Mei, Mrs Elaine Chua, Mr Jenfry Tseing & Mr Yip Yew Fei				



Henry Park Primary School 2014 Semestral Examination 1 Mathematics Primary 5

- 1)3
- 2) 4
- 3) 2
- 4)4
- 5)3
- 6) 2
- 7) 2
- 8) 1
- 0) 1
- 9) 1 10) 3
- 11) 2
- 12) 1
- 13) 3
- 14) 3
- 14) 3
- 15) 3
- 16) 8 240 067
- 17) 288 000
- 18) 2500
- 19) 1/12
- 20) 1/10
- 21) 63 cm²
- 22) 315 stamps
- 23) 6
- 24) 7500 cm³
- 25) 4075
- 26) 27*3 = 81

81 = 9 * 9

The number is 9.

- 27) 24 more oranges
- 28) 960 cm³
- 29) 9 boys
- 30) 98-30 = 68

 $1/2*68*16 = 544 \text{ cm}^2$

Paper 2

1) 3315+3369 = 6684

6684+3315 = 9999

Ans: 10 000

- 2) 2/3/7*7 = 17 litres
- 3) 22/4 = 5 R 2

10/4 = 2 R 2

16/4 = 4

5*2*4 = 40 cubes

4) Since 5 units of Samantha is equal to 2 units of John, find the common multiple of 5 & 2, ie. 10

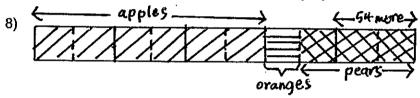
So, Samantha -> 10/12

John -> 10/25

Hence, the answer is 25/37.

- 5) Kelvin --> 24 kg + 40 kg = 64 kg Larry --> 64/2 = 32-kg Therefore, 32 : 40 = 4 : 5
- 6) \$443 000-\$83 000 = \$360 000 \$360 000/(30*12) = \$1000
- 7) \$1288*36 = \$46 368 \$55 000-\$46 368 = \$8632 \$8632/\$1288 = 6 R 904

The school could purchase 6 additional laptops.



2u --> 54 10u --> 10/2*54 = 270 fruits in the crate.

- 9) Before: After
 - A 5:3
 - B 2:1

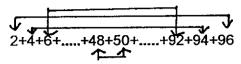
3 units -> \$60

5 units -> 5/3*60 = \$100

- 10) Length of square = 3/4*24 = 18 cm Area of triangles = 1/2*18*18 + 1/2*26*18 = 396 cm²
- 11) 3units + 2units + 9units = 14units 9units - 3units - 2units = 4units 4 units -> 48 14 units --> 14/4*48 = 168 sweets
- 12) Volume of water in Tank A = 2/3*7*6*18 = 504 cubic m Volume of water in Tank B = 15*8*2 = 240 cubic m 504-240 = 264 m³

13a) 30*2 = 60

b) 48*2 = 96

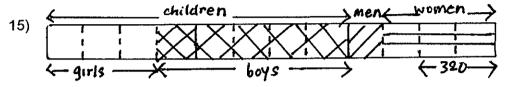


24*98 = 2352

14) 5+14+1 = 20 (number of columns)

9+15+1 = 25 (number of rows)

20*25 = 500 seats



2 units --> 320 5 units --> 5/2*320 = 800 boys

16) 672 - 24*18 = 240 cm²

240/24 = 10 cm (FE)

 $1/2*24*5 = 60 \text{ cm}^2$

1/2*18*24 = 216 cm²

 $60 + 216 = 276 \text{ cm}^2$

17) 12units + 4units + 15units = 31units

15units - 4units = 11units

31units --> 155

11units --> 11/31*155 = 55 more erasers

18) For every \$120 spent,

120/30*50 = 200 points

200+60 = 260 points

For \$1410,

1410/120 = 11 R 90

90/30*50 = 150

11*260 + 150 = 3010 points

