2016 SEMESTRAL EXAMINATION 1 MATHEMATICS PRIMARY 5

PAPÈR 1 (BOOKLET A)

Total Time for Booklets A and B: 50 min

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 4 080 101, what does the digit '8' stand for?
 - (1) 800 000
 - (2) 80 000
 - (3) 8000
 - (4) 800
- 2. Round off 43 507 to the nearest thousand.
 - (1) 43 000
 - (2) 43 500
 - (3) 44 000
 - (4) 44 500
- 3. $30-2 \times 4 + 24 + 4 =$
 - (1) 16
 - (2) 22
 - (3) 28
 - (4) 34
- 4. How many sixths are there in $3\frac{5}{6}$?
 - (1) 5
 - (2) 15
 - (3) 18
 - (4) 23

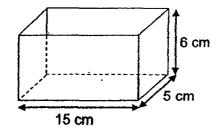
- $\frac{3}{7}$ ÷ 6 is the same as
- (1) $\frac{3}{7} \times \frac{1}{6}$
- (2) $\frac{3}{7} \times \frac{6}{1}$
- (3) $\frac{7}{3} \times \frac{1}{6}$
- (4) $\frac{7}{3} \times \frac{6}{1}$
- 6.
 - Given that ED is the base of the triangle AED, what is its height?
 - (1) AF
 - (2) AE
 - (3) BE
 - (4) CE

- 7.
- Max had 78 beads. He packed them equally into 6 boxes and then gave away 4 of the boxes. How many beads did he give away?

Which one of the following expressions correctly describes the statement above?

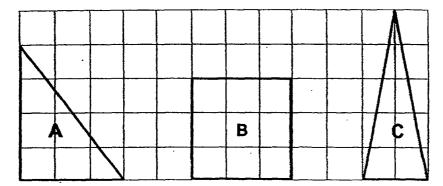
- (1) 78+6-4
- (2) 78 + (6 4)
- (3) $78 + (6 \times 4)$
- (4) $78 + 6 \times 4$

- 8. Beng Huat painted $\frac{2}{3}$ of a stick. What is the ratio of the unpainted portion of the stick to the painted portion of the stick?
 - (1) 1:2
 - (2) 1:3
 - (3) 2:1
 - (4) 2:3
- 9. Find the volume of the cuboid shown below.
 - (1) 180 cm³
 - (2) 390 cm³
 - (3) 450 cm³
 - (4) 540 cm³



- 10. Which of the following is the same as 5 060 mt?
 - (1) 5 t 6 mt
 - (2) 5 t 60 mt
 - (3) 50 t 6 mt
 - (4) 50 t 60 mt

11. In the square grid below, A is a right-angled triangle, B is a square and C is an isosceles triangle. Arrange A, B and C from the largest area to the smallest area.



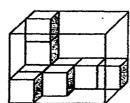
<u>Largest</u>		<u>Smalle</u>	
(1)	A,	В,	С
(2)	- В,	Α,	С
(3)	₿,	C,	Α
(4)	C,	Α,	В

- 12. Jenny and Meiling shared \$96 between them. Jenny received \$80. Find the ratio of Meiling's share to Jenny's share.
 - (1) 6:1
 - (2) 5:1
 - (3) 1:6
 - (4) 1:5
- 13. A bag contains 12 identical marbles. A few marbles are taken out from the bag. Which of the following is a possible ratio of the number of marbles remaining in the bag to the number of marbles taken out from the bag?
 - (1) 7:1
 - (2) 6:1
 - (3) 5:1
 - (4) 4:1

14. Jessie used $\frac{3}{4}$ m of ribbon to tie a parcel.

The length of ribbon Kai Ling used to tie another parcel was $\frac{2}{3}$ as long as the length of ribbon Jessie used. What was the total length of ribbon used by both Jessie and Kai Ling?

- (1) $\frac{1}{2}$ m
- (2) $\frac{5}{7}$ m
- (3) $1\frac{1}{4}$ m
- (4) $1\frac{5}{12}$ m
- 15. How many more cubes are needed to fill the clear rectangular tank completely?
 - (1) 28
 - (2) 27
 - (3) 15
 - (4) 9



(Go on to Booklet B)

2016 SEMESTRAL EXAMINATION 1 MATHEMATICS PRIMARY 5

PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 50 min

You are not allowed to use a calculator.

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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. When Karen rounded off a number to the nearest thousand, the result was 4000. What was the smallest possible 4-digit number that Karen had rounded off?

Do not write in this space

Ans:

17. Find the missing number in the box below.

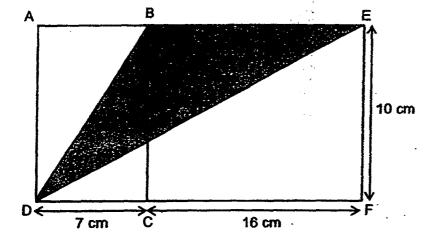
Ans: _____

18. What is the <u>Terminder</u> when 180 is divided remainder	by 40?	Do not
remanider	·	write in this space
		.
	Ans.	
19. Express 6.35 as a mixed number in its sir	nplest form.	
	·	
	Ans:	
	·	•
	(Go on to the next page)	

20. Find the value of $8\frac{4}{7} - 5\frac{1}{2}$. Give your answer in the simplest form. Do not write in this space

Ans: _____

21. 2 rectangles, ABCD and BEFC were placed side by side to form a larger rectangle as shown below. Find the area of the shaded triangle BED.



Ans:cr	n²
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(Go on to the next page)

Page 3

22.	What is the missing number in the box?	Do not
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	4.0-12.	this space
		L.
	Ans:	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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23.	The sides of a triangle are in the ratio 5:2:3. The length of the longest	
	side is 20 cm. Find the length of the shortest side of the triangle.	.*
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		4.
	Ans: cm	
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	(Go on to the next page)	

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	d below is made up of 1-cm cub	es. What is the volume of the	Do not
solid?	in de la companya de La companya de la co		write in
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		Ans:cm ³	
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25. Find the	volume of a 4-cm cube.		
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		Ans:cm ³	

esuons Wnic	h require units, give your answers	in the units stated.	(10 marks)
		· · · · · · · · · · · · · · · · · · ·	(10 marks)
		97	
. The table s	shows the charges of a magic show	v performance.	Do not
Fin	st 2 hours	\$100 per hour	write in
<u> </u>			this space
EVe	ery additional hour or part thereof	\$40	
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	npaid the magician \$280 for a perform number of hours the magician cou		
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	red some stickers in the ratio of 1 ters. How many stickers did the ceive?	: 2: 4. They receive	ved a total
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of 56 stick	ers. How many stickers did the	: 2: 4. They receive	ved a total
of 56 stick	ers. How many stickers did the	: 2: 4. They receive	ved a total

28. What is the maximum number of 2-cm cubes that can be packed into a	Do not
container measuring 10 cm by 9 cm by 4 cm?	write in
	this space
Ans:	
29. A square ABCD is made up of 1 small square, 2 identical small triangles and 2 identical large triangles. What fraction of the square ABCD is	
shaded?	`
A B	
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Ans:	
Go on to the next page)	

30. The diagram below shows a pattern of isosceles right-angled triangles. Do not write in this space 8 cm 4 cm 8 cm 4 cm 2 cm 1 cm 2^{nd} 4th 3rd 1st triangle triangle triangle triangle

What is the area of the 5th triangle in the pattern?

Ans: ____cm²

End of Paper

2016 SEMESTRAL EXAMINATION 1 MATHEMATICS PRIMARY 5

PAPER 2

Time for Paper 2: 1 h 40 min

You are allowed to use a calculator.

	quire units, give your answers	(1)	0 marks)
1.	Bobby had some marbles.	He gave $\frac{1}{3}$ of his marbles to Ken and $\frac{5}{6}$ of the	Do not write
	remainder to Wendy. He ha	ad 78 marbles left. How many marbles did he	
	give to Ken?		
	en Sign		
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		Ans:	
2.		13 seeds a day from a tin of seeds, that tin will days will the same tin of seeds last when she	
2.	last for 30 days. How many	13 seeds a day from a tin of seeds, that tin will days will the same tin of seeds last when she	
2.	last for 30 days. How many	13 seeds a day from a tin of seeds, that tin will days will the same tin of seeds last when she	
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·	last for 30 days. How many	13 seeds a day from a tin of seeds, that tin will days will the same tin of seeds last when she y instead?	

3.	A tank measuring 20 cm by 15 cm by 12 cm is $\frac{3}{10}$ filled with water
	Find the volume of water in the tank.

Do not write in this space

Ans:	cm ³
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4. Charles and Denny receive the same amount of salary every month. Charles saves $\frac{1}{3}$ of his salary while Denny saves $\frac{2}{5}$ of his salary. Charles saves \$160 less than Denny every month. How much is Denny's monthly salary?

Ans: \$_____

 A bag contains blue and green marbles in There is a total of 91 marbles in the bag. How many more blue marbles must be number of blue marbles will be the same 	Do not write in this space	
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	Ans:	
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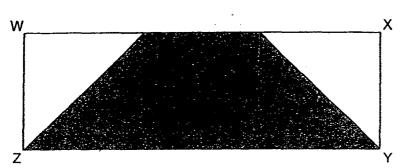
is s	shown in brackets [] at the end of each question or part-question.	(50 marks)
6.	A teacher baked some cookies for his class party. When he gave each child 5 cookies, there would be 40 cookies left. When he gave each child 7 cookies, there would be 8 cookies left.	Do not writed in this space
	(a) How many children were there at the class party?(b) How many cookies did the teacher bake for the party?	
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	·	l.
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	Ans: (a)	[3]
	(b)	[1]
	(Go on to the next page)	

7.	Arissa paid \$675 for 2 tables and 3 stools. The price of a table was thrice the price of a stool. How much did Arissa pay for the 2 tables?	e	Do not write in this space
	Ans:	_ [3]	
В.	A packet of rice has a mass of $4\frac{3}{5}$ kg. Its mass is $1\frac{1}{3}$ kg more than a		Do not write
	packet of flour. What is the total mass of the packets of rice and flour?		in this space
	Ans:(Go on to the next page)	[3]	
	(Oo on to the next page)	- 1	1

^	Timothy had a total of 430 red and blue balloons. After giving away $\frac{5}{9}$ of	Do not write
9.	the red balloons and 66 blue balloons, there was an equal number of red and blue balloons left. How many red balloons did he have at first?	in this space
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٠.		
	Ans:[4]	
	(Go on to the next rego)	

10. Rectangle WXYZ below is made up of 3 identical squares. Given that the perimeter of rectangle WXYZ is 80 cm, find the total area of the unshaded parts.

Do not write in this space

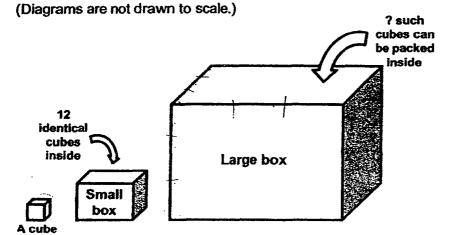


Ans: ______ [3]

11.	A factory had 168 workers at first. The ratio of the number of male workers to the number of female workers was 2:1. After 24 female workers left the factory, what was the ratio of the number of male workers to the number of female workers remaining in the factory?	Do not write in this space
		·
		i i
	Ans: [3]	
	(Go on to the next page)	

12. Min Lee has two rectangular boxes of different sizes. The length, breadth and height of the large box are thrice those of the small box. She packed 12 identical cubes exactly into the small box. How many such cubes can be packed exactly into the large box?

Do not write in this space



Ans: _____ [3]

13. The table below shows how much Eva saves daily. For each subsequent day, she saves \$5 more than the previous day.

Do)	no	t write
in	tl	nis	space

Day	Savings
1	\$15
2	\$20
. 3	\$25
4	\$30

- (a) How much will Eva save on the Day 6?
- (b) On which day will Eva save \$80?
- (c) How much savings will Eva have in total by the day found in part (b)?

Ans: (a)[1]	
(b) Day [2]	
(c)	
(Go on to the next page)	

14.	. In a supermarket, a box of b For every 10 boxes of biscui given free. Ken made his pu of biscuits. How much did K	ts purchased, an addi rchase and left the su		
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	·			
		•	, ·	
	·	Ans:		[4]
		_	on to the next page)	- (7)

15. Rui Yin had 3 times as much money as Peter After Rui Yin spent $\frac{1}{2}$ of her money and Peter spent $\frac{3}{5}$ of his money, they had a total of \$1615 left.

Do not write in this space

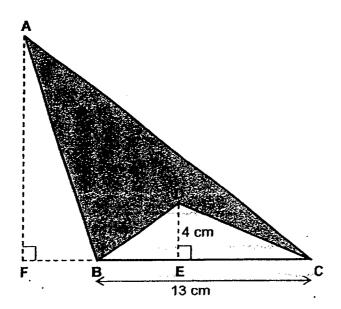
- a) How much money did Rui Yin and Peter have altogether at first?
- b) Peter spent $\frac{3}{8}$ of his remaining money on a pair of shoes. What fraction of his original amount of money did he spend on the pair of shoes?

Ans: a) _____[3]

b) ______ [2]

16. Triangle ABC and triangle DBC share the same base BC. The height of triangle ABC is 4 times the height of triangle DBC. Given that DE is 4 cm and BC is 13 cm, find the area of the shaded part.

Do not write in this space



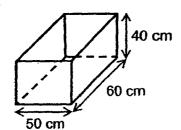
Ans: ______ [4]

square erasers in a stationery sho	red pens, 68 round erasers and some op. The ratio of the total number of green of round and square erasers was 8:5. here in the stationery shop?	Do not write in this space
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	Ans: [4]	
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18. A rectangular tank measuring 60 cm by 50 cm by 40 cm as was filled with water to a height of 28 cm at first. After 8 completely filled identical jugs of water were poured into the tank, the new water level in the tank became 32 cm.

Do not write in this space

- a) Find the volume of water in each jug in cubic centimetres.
- b) How much more water would be needed to fill the tank completely? (Give your answer in litres.)



Ans:a){{1}}	[3
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b)	[2
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-END OF PAPER-

Setters: Mrs Josephine Lai, Ms Yew Hew Mei, Ms Grace Chan

.

EXAM PAPER 2016

SCHOOL

HENRY PARK PRIMARY SCHOOL

SUBJECT

PRIMARY 5 MATHEMATICS

TERM

SA1

PAPER 1 **Booklet A**

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

Booklet B

Q16 3500

1700 Q17

Q18 20

Q19

Q20

Q21 80

Q22 18

Q23 8

Q24 12

Q25 64

Q26 4

Q27 32

Q28 40

 $\frac{1}{2}$ Q29

Q30 128

PAPER 2

- Q1 78 X 3 = 234
- Q2 $13 \times 30 = 390$ $390 \div 5 = 78$
- Q3 20 X 15 = 3600 3600 ÷ 10 = 360 360 X 3 = **1080**
- Q4 $\frac{\frac{1 \times 5}{3 \times 5}}{\frac{2 \times 3}{5 \times 3}} = \frac{5}{15}$ $\frac{2 \times 3}{5 \times 3} = \frac{6}{15}$ 6 5 = 11 unit $\rightarrow 160$ 15 units $\rightarrow 160 \times 15 = 2400$
- Q5 $91 \div 7 = 13$ $13 \times 3 = 39$
- Q6 (a) 40 8 = 32 $32 \div 2 = 16$ (b) $16 \times 5 = 80$ 80 + 40 = 120
- Q7 $675 \div 9 = 75$ $75 \times 6 = 450$
- Q8 $4\frac{9}{15} 1\frac{5}{15} = 3\frac{4}{15}$ $4\frac{9}{15} - 3\frac{4}{15} = 7\frac{13}{15}$
- Q9 430 66 = 364 364 ÷ 12 = 28 28 x 9 = **252**
- Q10 $80 \div 8 = 10$ $10 \times 10 = 100$
- Q11 168 ÷ 3 = 56 56 x 2 = 112 56 - 24 = 32 112 : 32 = 7 : 2
- Q12 $3 \times 3 \times 3 = 27$ (27 small boxes in the large box) $12 \times 27 = 324$
- Q13 (a) 30 + 10 = 40(b) 80 - 15 = 65 $65 \div 5 = 13$
 - $65 \div 5 = 13$ 13 + 1 = 14
 - (c) 15 + 20 + 25 + 30 + 35 + 40 + 45 + 50 + 60 + 65 + 70 + 75 + 80 = 665

Q14
$$47 \div 10 = 4 R 7$$

4 sets of 10 boxes thus 4 free
 $47 - 4 = 43$ (number of boxes purchased)
 $43 \times 3.50 = 150.50$

(a)
$$15 + 4 = 19$$

 $1615 \div 19 = 85$
 $85 \times 40 = 3400$

(b) 85 x 4 = 340

$$\frac{3}{8}$$
 x 340 = 127.50
10 X 85 = 850 (at first)
 $\frac{127.50}{950} = \frac{3}{20}$

(b)
$$2400ml = 24l$$

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