

#### NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 - 2019 PRIMARY 6

#### MATHEMATICS PAPER 1 (BOOKLET A)

#### Total Time for Booklets A and B: 1 hour

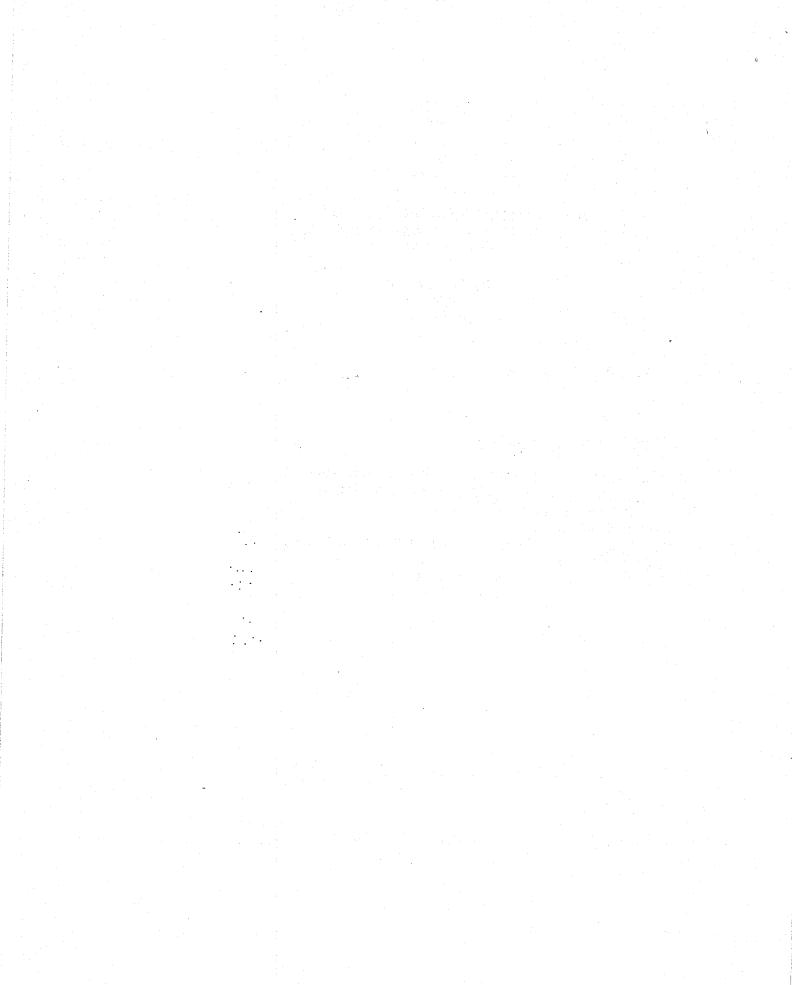
#### **INSTRUCTIONS TO CANDIDATES**

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-15.
- 6. The use of calculators is **NOT** allowed.

Name : \_\_\_\_\_ ( )
Class : 6\_\_\_\_\_

Date : 16 May 2019

Parent's Signature :\_\_\_\_\_



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 and shade your answer (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

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· . · .

- 1. Round 245 542 to the nearest thousand.
  - (1) 245 000
  - (2) 245 500
  - (3) 246 000
  - (4) 250 000

2. What is the value of  $16 + (40 - 8) \div 4 \times 2$ ?

- (1) 6
- (2) 24
- (3) 32
- (4) 48

3. Which one of the following are common factors of 12 and 30?

- (1) 2 and 3
- (2) 2 and 5
- (3) 3 and 4
- (4) 4 and 6

4. Find 
$$\frac{2}{7} \div \frac{5}{6}$$
  
(1)  $\frac{12}{35}$   
(2)  $\frac{5}{21}$   
(3)  $2\frac{11}{12}$   
(4)  $4\frac{1}{5}$   
5.  $\frac{3}{5} \times 12 = 3 \times \frac{3}{5} + \frac{3}{5} + \prod \times \frac{3}{5}$   
(1) 5  
(2) 8  
(3) 9  
(4) 4

6.

Simplify the following algebraic expression.

14 + 6a + 2 – 5a

- (1) 16 + 11a
- (2) 16 + a
- (3) 12 + 11a
- (4) 12 + a

Solutions at https://www.sgtestpaper.com/

Simon started his revision at 11.55 a.m. He revised for 1 h 50 min. What time did Simon stop his revision?

(1) 1.05 a.m.

7.

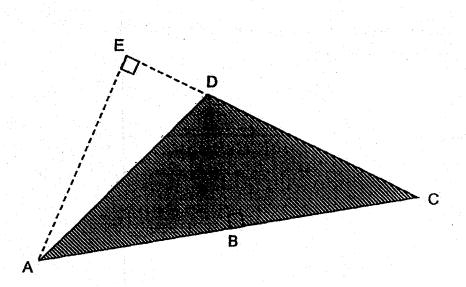
- (2) 1.45 a.m.
- (3) 1.05 p.m.
- (4) 1.45 p.m.

8. The table below shows the number of coins saved by Natalie for 5 days.

Day	Number of coins saved			
	20-cent coins	50-cent coins		
Monday	4	2		
Tuesday	10	0		
Wednesday	0	3		
Thursday	5	5		
Friday	8	1		

On how many days was Natalie able to save at least \$2?

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

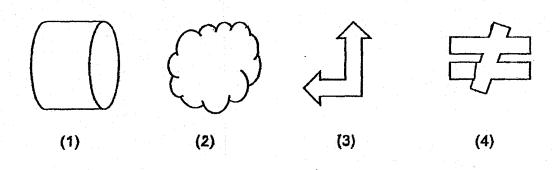


From the figure above, which one of the following shows the correct base and height of triangle ACD?

	Base	Height
(1)	BD	AC
(2)	CD	AE
(3)	CE	AE
(4)	CD	BD

9.

## 10. Which one of the following is a symmetric figure?



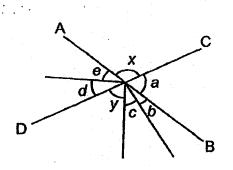
11. What is the value of  $21 + \frac{4y}{2}$  when y = 6?

- (1) 22
- (2) 24
- (3) 26
- (4) 33

12. At a carnival, the ratio of the number of adults to the number of children is 7 : 9. The number of boys is  $\frac{1}{5}$  the number of girls. What is the ratio of the number of girls to the number of adults?

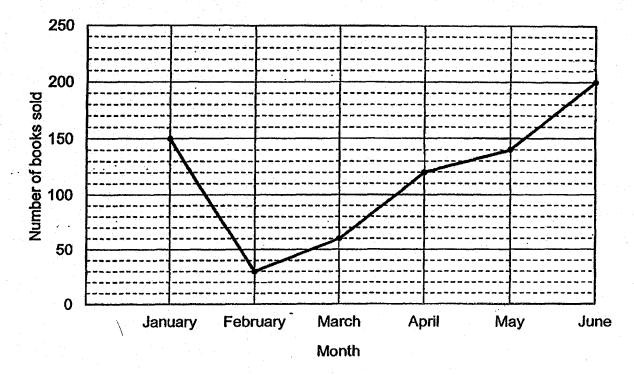
- (1) 1:7
- (2) 5:7
- (3) 3:14
- (4) 15:14

13. In the figure below not drawn to scale, AB and CD are straight lines. Find the difference between  $\angle x$  and  $\angle y$ .



- (1) ∠a-∠d
- (2)  $\angle b + \angle c$
- (3)  $\angle d + \angle e$
- (4) ∠a-∠e

14. The line graph below shows the number of books sold by a shop from January to June in 2015.



What was the average number of books sold per month from February to April in 2015?

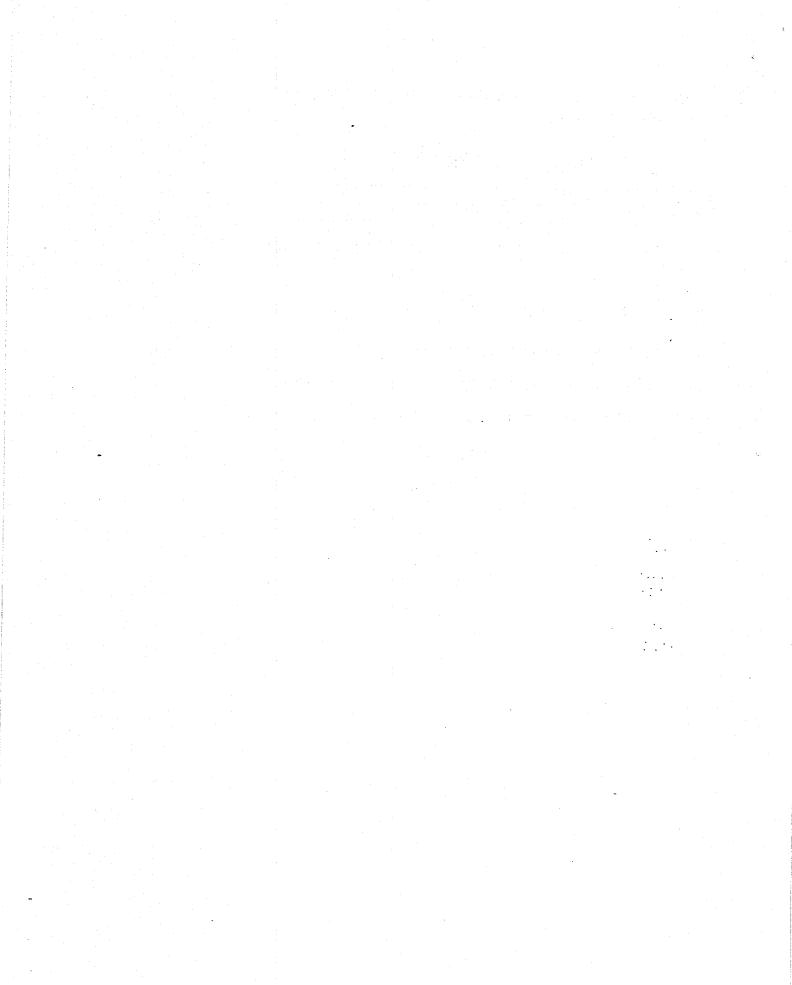
- (1) 35
- (2) 70
- (3) 75
- (4) 210

15. The table below shows the number of students in 6A. Some of the information is missing.

	With CCA	Without CCA	Total
Boys	10		
Girls	15		20
Total			36

Based on the given information, which of the following statements is correct?

- (1)  $\frac{1}{5}$  of the students with a CCA are boys.
- (2) 25% of the girls are without any CCA.
- (3) There are more girls than boys who are without any CCA.
- (4) The ratio of the number of girls to the number of boys in 6A is 4:5.





#### NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 - 2019 PRIMARY 6

#### MATHEMATICS PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 1 hour

### **INSTRUCTIONS TO CANDIDATES**

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Write your answers in this booklet.
- 6. The use of calculators is <u>NOT</u> allowed.

#### **Marks Obtained**

Paper 1	Booklet A	
	Booklet B	/ 45
Paper 2		/ 55
Total		/ 100

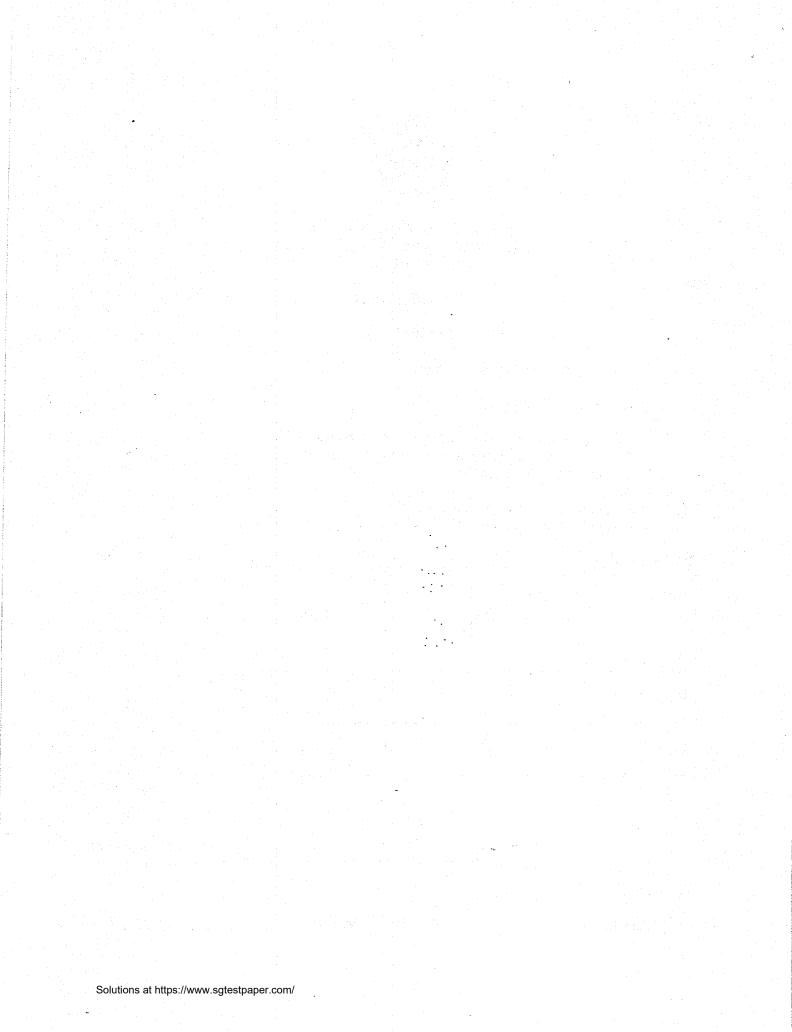
Name : \_\_\_\_\_\_ (

Class: 6

Date : 16 May 2019

Parent's Signature :\_\_\_\_\_

)



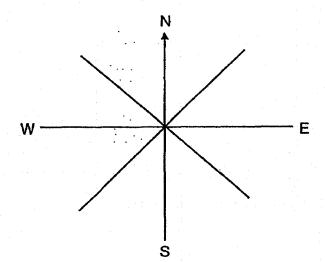
rov	stions <b>16</b> to <b>20</b> carry 1 m ided. For questions which			in the units	Do not write in this space
tate	æd.		•	[5 marks]	
6.	Find the value of 18 + $\frac{4}{5}$				
			_		
			Ans :		
•	How much water is there	in the beaker?			
				•	
		• • • • • • • • • • • • • • • • • • •			
	28				ta da Aline de Aline.
					[
			Ans :	m <i>ł</i>	
	Write down the common	multiple of 3 and 7	that is greater	than 40 but	
	smaller than 50.		Since o groater	CIULT TO DUL	
			10 A. 10 A.		
			•		
			Ans:	· · · ·	
				· · · · · · · · · · · · · · · · · · ·	1
				Subtotal	/3

19. 3 children shared  $\frac{2}{3}$  of a pizza equally. What fraction of a pizza did each child get?

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Ans : \_\_\_\_\_

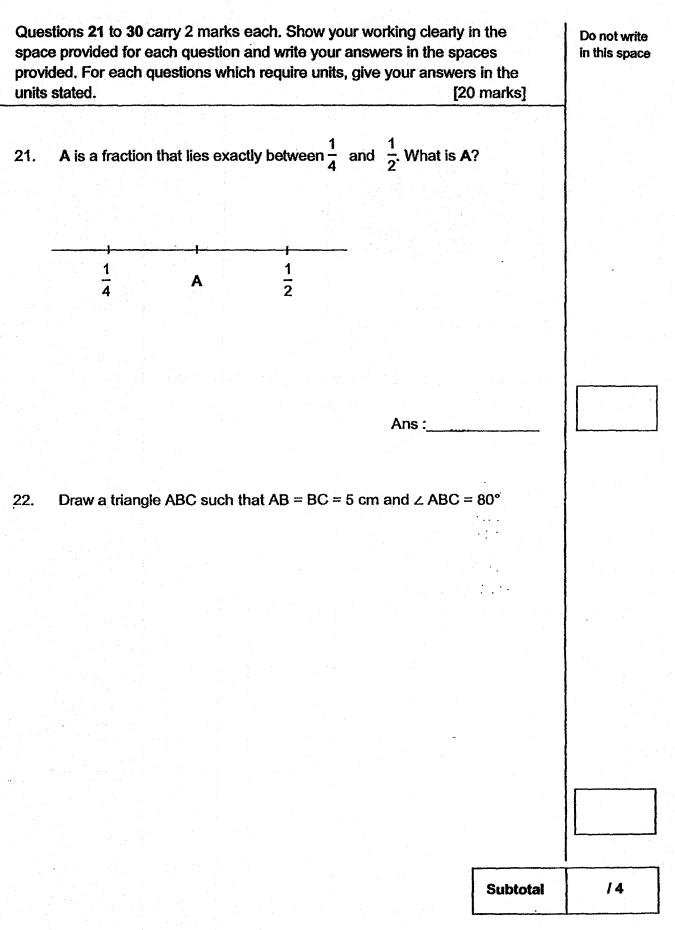
20. Jimmy is facing west now. When he makes a  $\frac{3}{4}$  – turn in a clockwise direction and another  $\frac{1}{4}$  – turn in an anticlockwise direction, where will Jimmy be facing?



Ans	:	

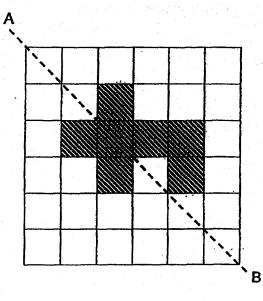
Subtotal	/2

Solutions at https://www.sgtestpaper.com/

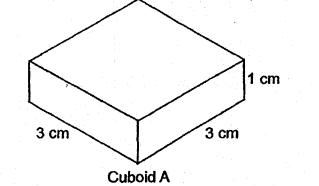


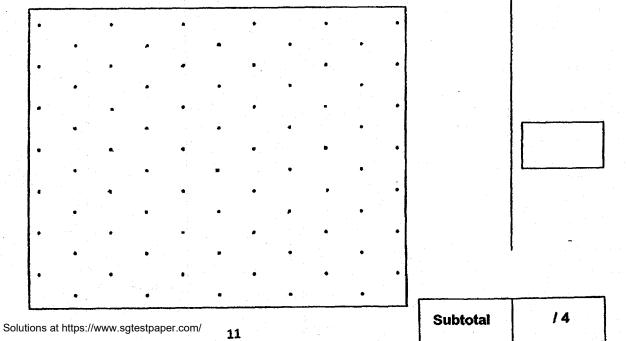
23. There are 7 shaded squares in the figure. Shade 2 more squares to form a symmetric figure with AB as the line of symmetry.

Do not write in this space



24. The figure below shows Cuboid A. Draw a cuboid with a volume twice that of Cuboid A on the isometric grids provided.

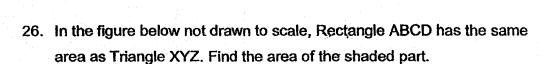




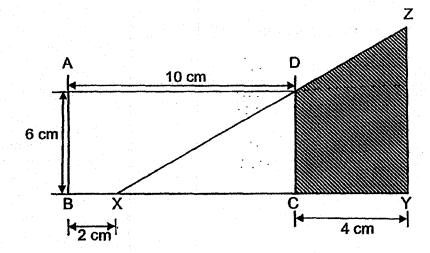
25. Mdm Lim made  $\frac{7}{8}$   $\ell$  of orange drink. She poured the orange drink into

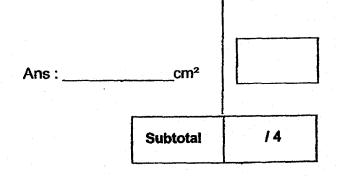
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glasses of capacity  $\frac{1}{5}\ell$  each. All the glasses were completely filled except for 1 glass. How much orange drink was in the glass that was not completely filled?



Ans:





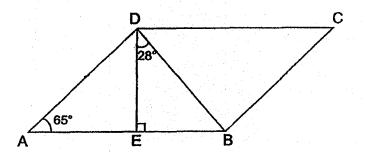
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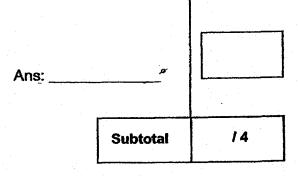
Madam Fatimah baked some cupcakes. After selling  $\frac{1}{4}$  of the cupcakes, 27. in this space she packed the remaining cupcakes into 12 boxes. There were 4w cupcakes in each box. How many cupcakes did Madam Fatimah bake in all?

Ans:

The figure below is not drawn to scale. 28.

ABCD is a parallelogram.  $\angle BAD = 65^{\circ}$  and  $\angle BDE = 28^{\circ}$ . Find  $\angle DBC$ .





Do not write

		ent coins than 10-cent co		
value of	the coins is \$5.	.70. How many 10-cent c	oins does Bowen I	nave?
			$\frac{\partial r}{\partial t} = \frac{\partial r}{\partial t} + $	
		Ans:	ten-cent	coins
The ba	r graph shows	the number of cars owned	ed by families living	jin an
estate	•			
45	······			
40				
335       30       25       20       15       10				
25				
5 20				
15				
10				
.5				
0				
	0	1 2	2 3	
		Number of cars		
		nts below is either true, fa		
		iven. For each statement	, put a tick ( $$ ) to in	dicate
your ar	iswer.			
	Staten	rent True	e False	lot
			poss	ible to
40.6				
40 tar	nilies own at le	ast 2 cars.		
	of the total nu	mber of cars are		
50%	d by families w			
	· · · · · · · · · · · · · · · · · · ·			
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Solutions at https://www.sgtestpaper.com/



#### NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 - 2019 PRIMARY 6

#### MATHEMATICS

#### Paper 2

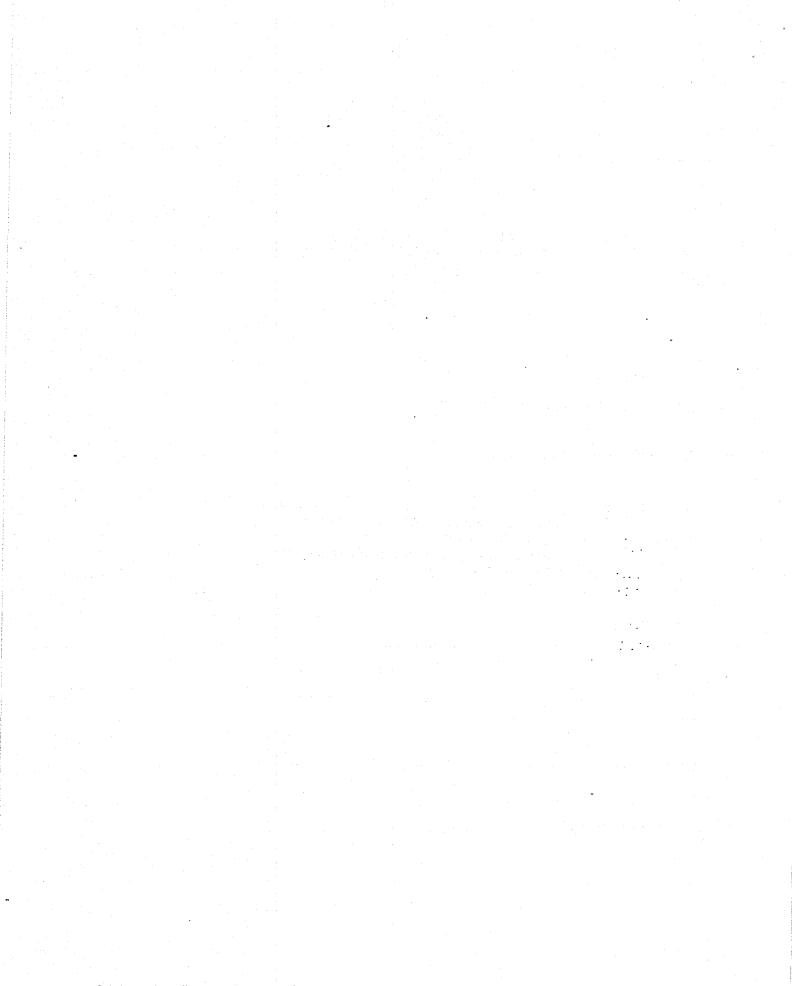
Total Time for Paper 2: 1 hour 30 minutes

#### INSTRUCTION TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully
- 4. Answer all questions and show your workings clearly.
- 5. You are allowed to use a calculator.

**Marks Obtained** 

r				
Total			/ 55	
<b></b>	<u> </u>		<b></b>	
Name :				(
Class :				
Date : 16 May 201	9	Parent's Sig	gnature :	··

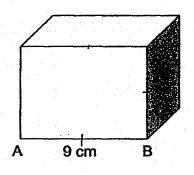


### Paper 2 (55 marks)

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Questions 1 to 5 carry 2 marks each. Show your workings clearly and write youranswer in the space provided. For questions which require units, give your answersin the units stated.(10 marks)

1. The volume of the cuboid below is 216 cm<sup>3</sup>. The length of AB is 9 cm. What is the area of the shaded face?



Ans:		cm <sup>2</sup>

2. The ratio of Tom's money to Jerry's money was 1 : 5 at first. After spending \$25 each, they had a total of \$130 left. How much did Tom have at first?

3. After joining the Active Kids Programme in school, Brendon's mass decreased by 5%. He is 57 kg now. What was his mass before joining the programme?

Do not write in this space

Ans:

kg

4. The table below shows the postage rates for delivering packages to Australia.

Mass step not over	Postage
100 g	\$4.70
250 g	\$9.85
500 g	\$17.00
Every additional 100 g	\$3.50

How much postage did Mr Lim pay to deliver a 550 g package to Australia?

Ans: \$

5. The table shows the number of cupcakes a shop sold in 5 days.

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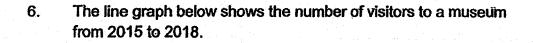
Day	Monday	Tuesday	Wednesday	Thursday	Friday
Number of cupcakes	0	680	?	1050	900

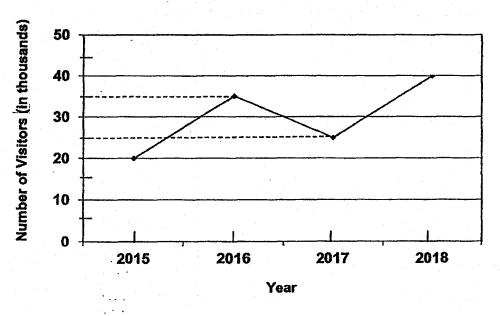
The average number of cupcakes sold from Monday to Friday was 850. The shop was closed on Monday. How many cupcakes did the shop sell on Wednesday?

Ans:

For questions 6 to 17, 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. (45 marks)

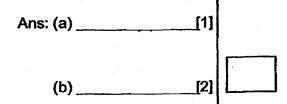
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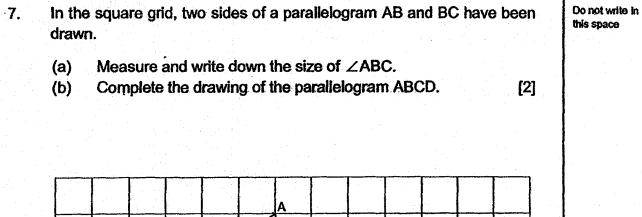




#### Number of Visitors to a Museum

- (a) What was the total number of visitors in the 4 years?
- (b) What was the percentage increase in the number of visitors from 2017 to 2018?





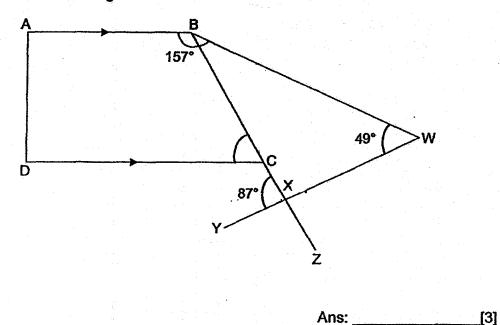
Ans: (a) [1]

.

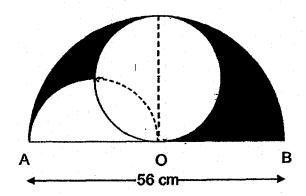
. .

In the figure, not drawn to scale, AB is parallel to DC. AD, BW, BZ and WY are straight lines.  $\angle$  ABW = 157°. Find  $\angle$ BCD.

Do not write in this space



9. The figure is made up of a circle and 2 semi-circles. O is the centre of the large semi-circle and AB is 56 cm. Find the perimeter of the shaded parts. (Take  $\pi = \frac{22}{7}$ )



Ans:

[4]

8.

10. The table below shows the rates for printing class T-shirts at a printing shop.

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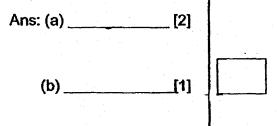
	Quantity	Charge
	First 20 T-shirts	\$13 each
F	Every additional T-shirt	\$10,50

Amy went to the printing shop to print T-shirts for her classmates. She paid <u>\$428</u> altogether. How many T-shirts were printed?

Ans: \_\_\_\_\_[3]

11. Winnie and Lulu shared a sum of money. At first, Winnie had \$58. Then Lulu gave her \$25. In the end, Lulu's amount of money was reduced by 10%.

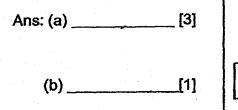
- (a) How much did Lulu have at first?
- (b) Find the sum of money shared by the two girls.



12. Mr Ng bought 208 T-shirts and shorts altogether. He paid a total of \$3050. Each T-shirt cost \$14 and each pair of shorts cost \$20.

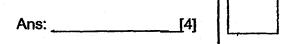
Do not write in this space

- (a) How many T-shirts did Mr Ng buy?
- (b) How many pairs of shorts did Mr Ng buy?



13. Some children took a Mathematics test. Their average score was 78.1 marks. One of the children's scores was wrongly recorded as 79 marks instead of 97 marks. As a result, the average score was calculated as 76.3 marks. How many children sat for the test?

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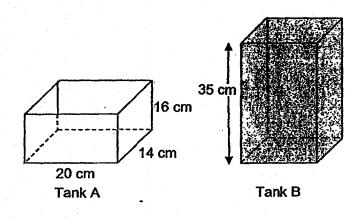


Solutions at https://www.sgtestpaper.com/

14. Tank A which measured 20 cm by 14 cm by 16 cm was empty. Tank B with a base area of 200 cm<sup>2</sup> and a height of 35 cm was completely filled with water. The water from Tank B was then poured into Tank A to its brim.

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- (a) What was the volume of water in Tank B at first?
- (b) What was the volume of water in Tank B in the end?





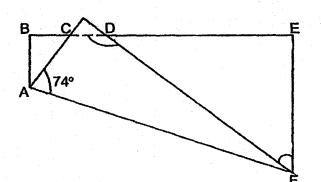


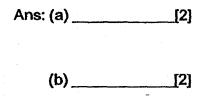
15.

In the figure below, a rectangular piece of paper is folded along AF as shown. BCDE is a straight line. Find

Do not write in this space

- (a)  $\angle$  DFE and
- (b) ∠ BDF





Dylan had three boxes, A, B and C, containing a total of 1512 stamps. The number of stamps in Box A is  $\frac{2}{7}$  of the total number of stamps. Dylan sold 190 stamps from Box B and sold  $\frac{1}{4}$  of the stamps in Box C. The number of stamps left in Box B was twice the number of stamps left in Box C. How many stamps were there in Box B at first?

Do not write this space

[5]

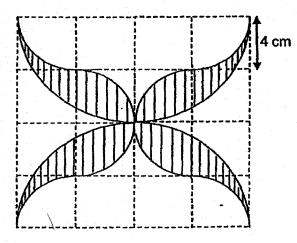
16.

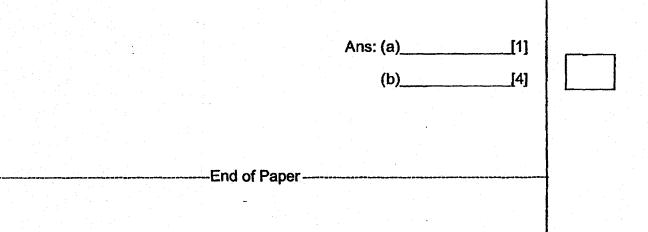
Ans:

17. The figure below is made up of two big identical semicircles, 8 small identical quadrants and 16 squares. The side of each square is 4 cm. Find

- (a) the radius of the big semicircles and
- (b) the total area of the shaded parts

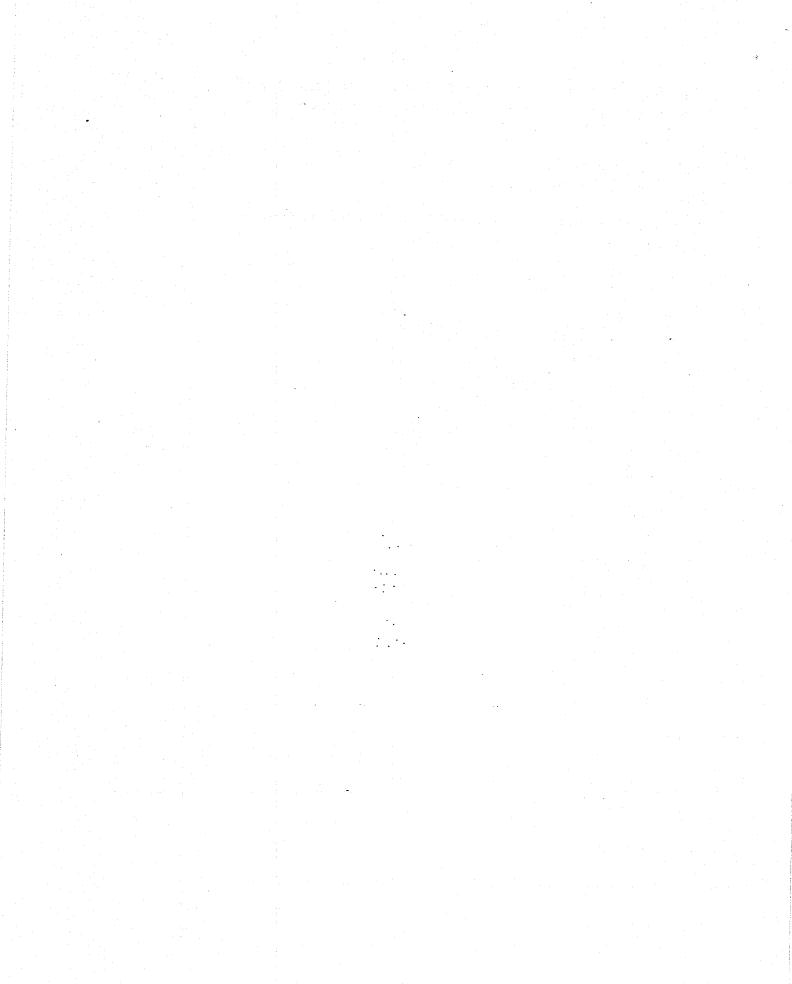
(Use  $\pi$  in the calculator and give your answers correct to 2 decimal places)





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Solutions at https://www.sgtestpaper.com/



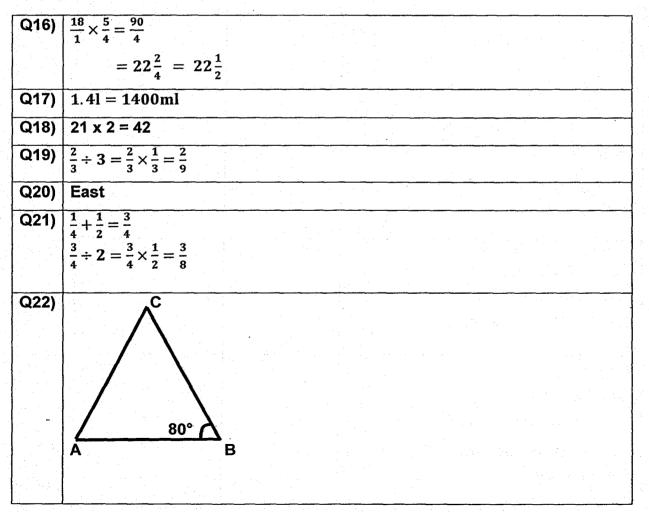
SCHOOL :	NAN HUA PRIMARYSCHOOL
LEVEL :	PRIMARY 6
SUBJECT :	MATH
TERM :	2019 SA1

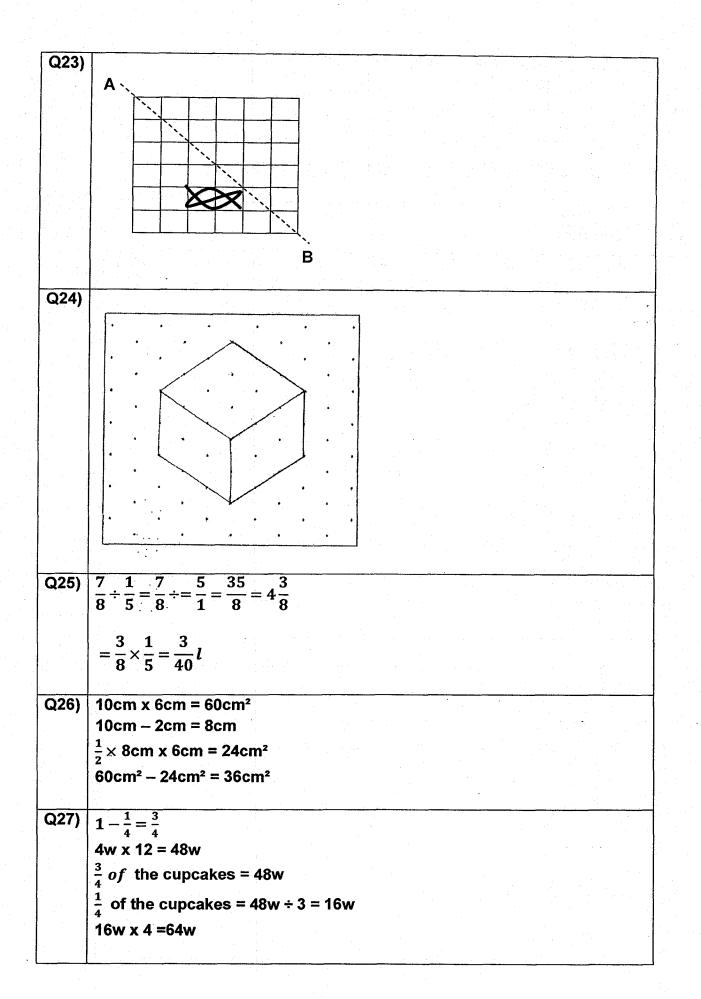
## PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	3	1	1	2	2	4	3	2	1

ſ	Q 11	Q12	Q13	Q14	Q15
ſ	4	4	2	2	2

# PAPER 1 BOOKLET B





Q28)	180° – 65° = 115°	
	180° – 90° – 65° = 25°	
	115° – 25° – 28° = 62°	
	180° - 62° - 65° = 53°	
Q29)	10¢ x 3 = 30¢	
	\$5.70 = 570¢	
	$570\phi - 30\phi = 540\phi$	
	$50\phi + 10\phi = 60\phi$	
	$540 \phi \div 60 \phi = 9$	
	9 + 3 = 12 ten cents coins	
Q30)	True	
	False	

# PAPER 2

Q1)	? x ? x 9cm = 216cm <sup>3</sup> 216cm <sup>3</sup> ÷ 9cm = 24cm <sup>2</sup>		
001			and the second
Q2)	\$130 + \$25 + 25 = \$180 5u + 1u = 6u		
	6u = \$180		
	$1u = $180 \div 6 = $30$		
Q3)	100% - 5% = 95%	· · · · · · · · · · · · · · · · · · ·	
	95% of his original mass→57kg <u>57kg</u> x 100 = 60kg		
	95		
Q4)	\$17 + \$3.50 = \$20.50	· · · · · · · · · · · · · · · · · · ·	
Q5)	850 x 5 = 4250 4250 - 680 - 1050 - 900 = 1620		
Q6)	a)120 x 1000 = 120000		
~-/	b)40 – 25 = 15		
	$\frac{15}{25}$ x 100% = 60%	. <b>-</b>	
Q7)	a)75°		

	b) A
	В
•.	
Q8)	180°- 87° = 93°
	180° 93° 49° = 38°
•	157° 38° = 119°
	180° 119° = 61°
Q9)	56cm ÷ 2 = 28cm
	$\frac{1}{2} \times \frac{22}{7} \times 28$ cm = 44cm
	44cm x 2 = 88cm
	$\frac{1}{2} \times \frac{22}{7} \times 56$ cm = 88cm
	88cm + 88cm + 28cm = 204cm
040	
Q10)	\$13 x 20 = \$260
	\$428 - \$260 = \$168 \$168 - \$10 50 - 16
	\$168 ÷ \$10.50 = 16 16 + 20 = 36
044	a)10% of LuLu's money = \$25
Q11)	
	$\frac{\$25}{10}$ x 100 = \$250
	b)\$58 + \$250 = \$308
Q12)	a)\$20 x 208 = \$4160
	\$4160 - \$3050 = \$1110
1	<b>\$20 - \$14 = \$6</b>
	\$1110 ÷ 6 = \$185
	b)208 – 185 = 23
Q13)	78.1 - 76.3 = 1.8
	97 – 79 = 18
	1.8 average marks = 18 marks
	18 ÷ 1.8 = 10

Q14)	a)200cm <sup>2</sup> x 35cm = 7000	cm <sup>3</sup>		······································
	b)20cm x 14cm x 16cm	= 4480cm <sup>3</sup>		
en en la	7000 cm <sup>3</sup> - 4480 cm <sup>3</sup> = 2			
Q15)	a)180°74°90° = 16°			
<b>Q</b> 10)	$90^{\circ}-16^{\circ}-16^{\circ}=58^{\circ}$			
	b)180°- 90°- 58° = 32°		<b>"</b> • • •	
	180°- 32° = 148°			
Q16)	At first left			
	A : B + C : Total	B:C		
	2:5:7	2 : 1x3		
	(1080) (1512)	6:3		
	7u = 1512	6p + 190 +	4p = 1080	
	1u = 1512 ÷ 7 = 216	•	- 190 = 890	
	5u – 216 x 5 = 1080	1p = 890 ÷		
		6p = 89 x		
		534 + 190		
			8 Au T	
Q17)	a)4cm x 2 = 8cm			<u></u>
,	b)4cm x 4cm = $16cm^2$		· · ·	
	$16 \text{cm}^2 \ge 4 = 64 \text{cm}^2$			
	½ x π x 8cm x 8cm = 32	πcm²		
	2 x (32π– 64)cm <sup>2</sup>			
	= (64π– 128 )cm²			
	≈73.06cm²			· .

