SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2019

PRIMARY 6

MATHEMATICS PAPER 1

BOOKLET A

Name : _____(Class : Primary 6 SY / C / G / SE / P

10 May 2019

		Marks attained	Max Mark	Parent's Signature
Paper 1	Booklet A		20	
	Booklet B		25	
Paper 2			55	
Total Marks	un	·	100	
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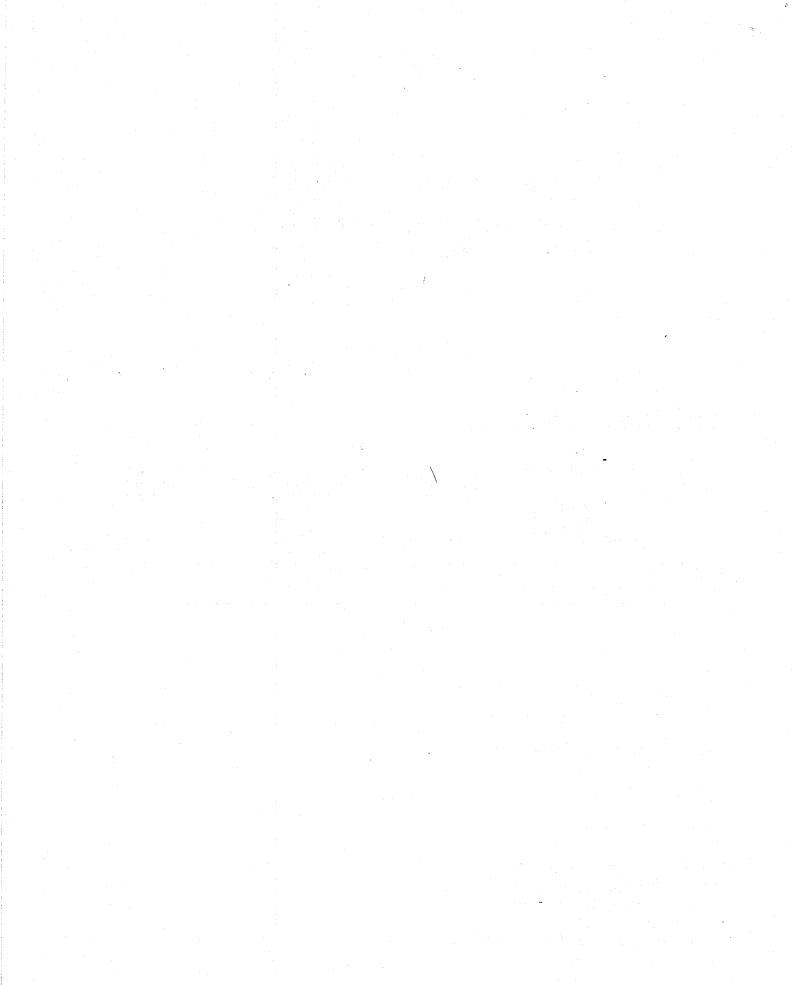
15 Questions 20 Marks

•

Total Time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so. Follow all instructions carefully. Answer all questions. You are <u>not allowed</u> to use a calculator



Booklet A

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 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

1.	300	000 + 20 000 + 40 -	+ 4 =		•			
	(1)	302 044						
	(2)	302 404						
	(3)	320 044						
	(4)	320 440					de tra	
2.	Kae dolla	spent \$1 399 685 or	a house. Ro	ound off this	s amount	to the ne	arest ti	nousand
	uvna	15.						
	(1)	\$1 398 690						
	(2)	\$1 399 000						
	(3)	\$1 399 700						
	(4)	\$1 400 000						
3.	In 6.	79, what does the d	igit 9 stand 1	for?				

- (1) 9 ones
- (2) 9 tenths
- (3) 9 hundredths
- (4) 9 thousandths

Find the value of $\frac{3}{4} \div \frac{5}{12}$ (1) $\frac{16}{5}$ (2) $\frac{9}{5}$ (3) $\frac{5}{9}$ (4) $\frac{5}{16}$

4.

5.

There are red, blue and yellow beads. The ratio of the number of red beads to the number of blue beads is 2:1. The ratio of the number of red beads to yellow beads is 3 : 2. What is the ratio of the number of red beads to the number of blue beads to the number of yellow beads?

- (1) 6:3:2
- (2) 6:3:4
- (3) 2:1:2
- (4) 2:3:2

6. Amy made 7 dumplings every 3 minutes. How many dumplings can she make in an hour?

- (1) 140
- (2) 120
- (3) 70
- (4) 60

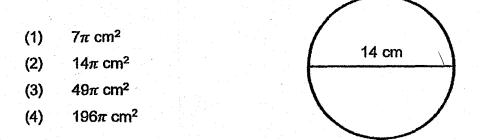
Jenny had \$50. She bought 4 notebooks and had x left. What was the cost of each notebook? Express the cost of 1 notebook in terms of x.

(1)
$$\$\left(\frac{50-x}{4}\right)$$

(2) $\$\left(50-\frac{x}{4}\right)$
(3) $\$\left(50-4x\right)$
(4) $\$\left(\frac{50x}{4}\right)$

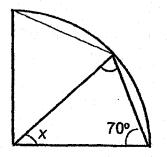
7.

8. The diameter of the circle below (not drawn to scale) is 14 cm. Find the area of the circle. Express your answer in terms of π .



9. The figure below is made up of a quadrant and a triangle. Find $\angle x$.

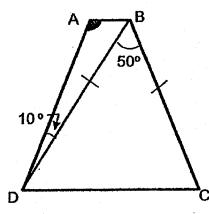
- (1) 40°
- (2) 45°
- (3) 70°
- (4) 140°



10. ABCD is a square with a semicircle cut from the side CD as shown. Given that BC = 14 cm, find the perimeter of the shaded portion.

(Tak	$e \pi = \frac{22}{7})$	A B
(1)	86 cm	14 cm
(2)	64 cm	
(3)	53 cm	
(4)	44 cm	D ² C

- 11. The figure shows a trapezium ABCD and an isosceles triangle BCD. Given that BD = BC, AB // DC and $\angle CBD = 50^{\circ}$ and $\angle ADB = 10^{\circ}$. Find $\angle BAD$.
 - (1) 65°
 - (2) 75°
 - (3) 105°
 - (4) 115°



^{12.} Jeremy has 6 kg of flour. He gave $\frac{1}{2}$ of it to his friend and used $\frac{1}{4}$ kg to bake some cookies. How much flour had he left?

- (1) $\frac{3}{4}$ kg (2) $2\frac{3}{4}$ kg
- (3) $3\frac{3}{4}$ kg
- (4) $5\frac{1}{4}$ kg

13.

Amanda has forty 20-cent coins and Betty has sixty 50-cent coins.

Which of the following statement shows the difference between the amount of money Betty and Amanda has?

- (1) $(60-40) \times (50-20)$
- (2) $(50 \times 60 40 \times 20)$
- (3) $(60 \times 40 50 \times 20)$
- (4) $(60 + 40) \times (50 20)$
- 14. There were 120 members in Club Aloha last year. This year, there are 300 members. What is the percentage increase from last year?
 - (1) 40%
 - (2) 60%
 - (3) 150%
 - (4) 250%
- 15 A repeat pattern is formed using the numbers 0, 1 and 2 as shown below.

0	1	2	1	0	0	1	2	1	0	0	1	2	1	• # 444 ¥ 444 4 44 4
1st	2nd	Sug									· · ·		14 th	• • • • • • • • • • • •

What is the sum of the first 203 numbers?

- (1) 160
- (2) 161
- (3) 162
- (4) 163

End of Booklet A

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

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

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SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2019

PRIMARY 6

MATHEMATICS PAPER 1

BOOKLET B

Name : ()

Class : Primary 6 SY / C / G / SE / P

10 May 2019

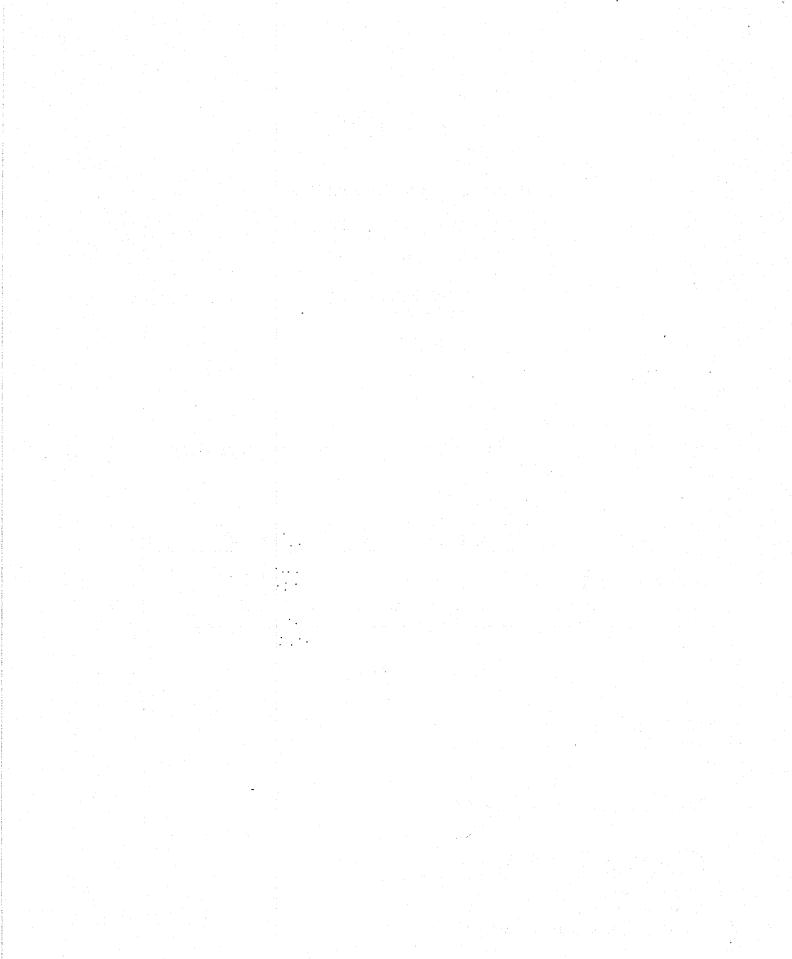
Paper 1	Mark attained	Max Mark
Booklet B		25

15 Questions 25 Marks

Total Time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so. Follow all instructions carefully. Answer all questions. You are <u>not allowed</u> to use a calculator



Booklet B

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

Do not write in this column

	5	8 3	26			
•				Ans: _		
7.	Evoress -	as a decim	al correct to the	nearest 2 decin	nal places	
	8			10010012 0001	nui pidoso.	· .
				Ans:		
18.	2 pizzas w each perso		equally among	5 people. What	fraction of a p	izza did
						- -

19.	gave \$9 to Mei Lir	ng and the	ratio of the ar	he ratio of 2 : 5 resp mount of pocket mo do they have altoge	oney Mei Ling	Do not wr in this column
				Ans: \$		_
······	· · · · · · · · · · · · · · · · · · ·	<u></u>			· ·	
20.		•		The GST is 7%, how	v much will	
• .	Georgina pay for t	he dress in	clusive of GS	ST?		
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· · ·						
			А.			н Настания
				· ·		
				Ans: \$		
						2

Do not write in this column

Questions 21 to 30 carry 2 marks each. Show your working clearly in the space for each question and write your answers in the space provided.

For questions which require units, give your answers in the units stated.

(20 marks)

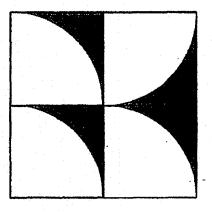
21. Helen's score for the first two tests are listed in the table below. How much must Helen score for the 3rd test in order for her to get an average score of 80 marks for all 3 tests?

Test	Marks	
1	75	
2	70	-
3	?	-

Ans:

22. The figure below is made up of 4 identical quadrants with a radius of 10 cm inside a square. What is the area of the shaded figure below?

(Take $\pi = 3.14$)



Ans:	

 $\rm cm^2$

23.	Tom bought 2 erasers for x cents each. He also bought an exercise book. He	1 ST
	spent \$6 altogether. What is the cost of the exercise book?	in this column

Ans: _____

cents

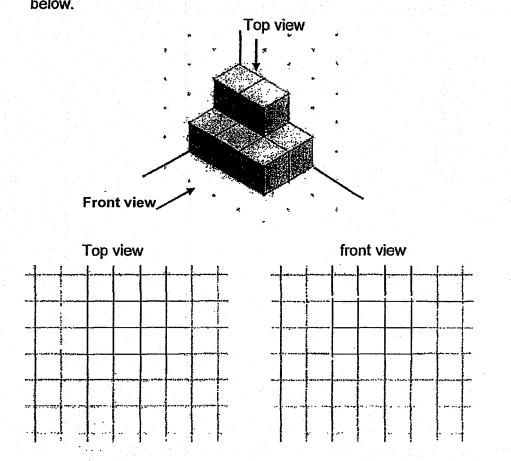
24. A toy wheel of radius 7 cm was rolled along a straight line on a table. What was the distance covered if it made a total of 10 complete revolutions?

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

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

Ans: ____

cm



25. In the grid below, draw the top and front view of the solid shown in the grid below.

Do not write in this column

26. John had a 1m long wire. He used some of it to form a square and 2 identical equilateral triangles as shown below. The length of XY is 16 cm, find the length of the remaining unused wire.

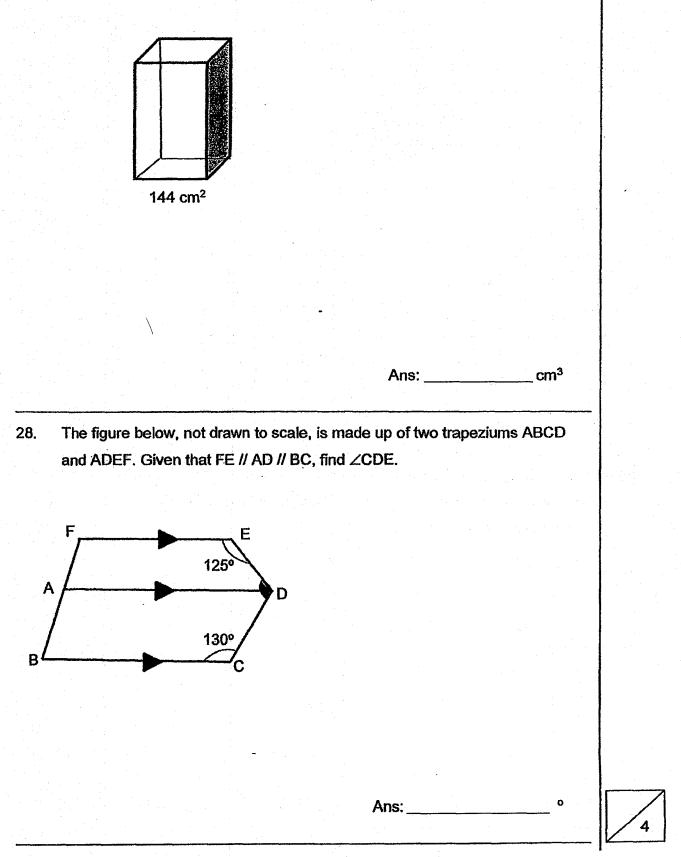
X		
\mathbf{Y}	Ans: _	

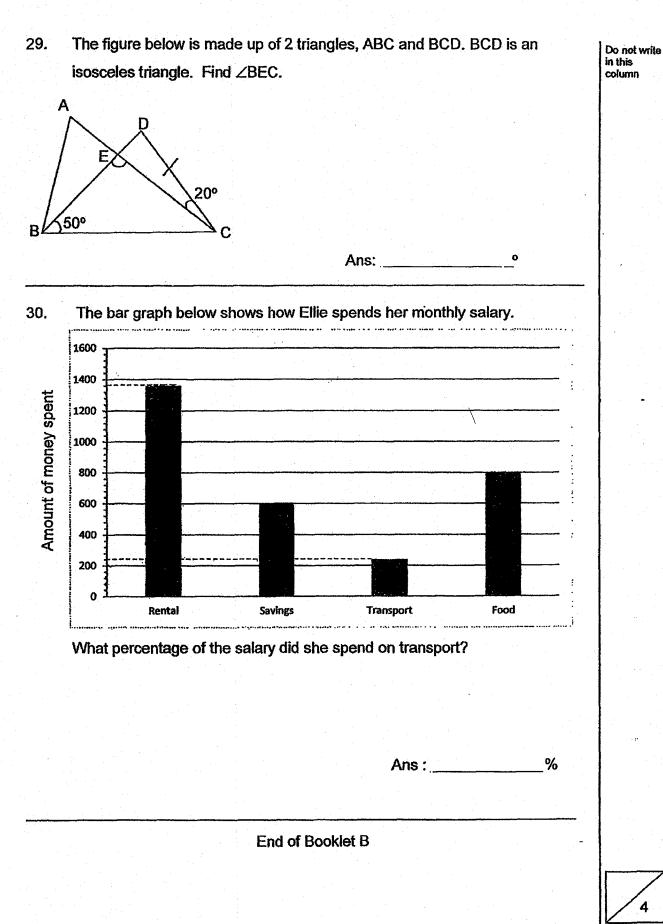
4

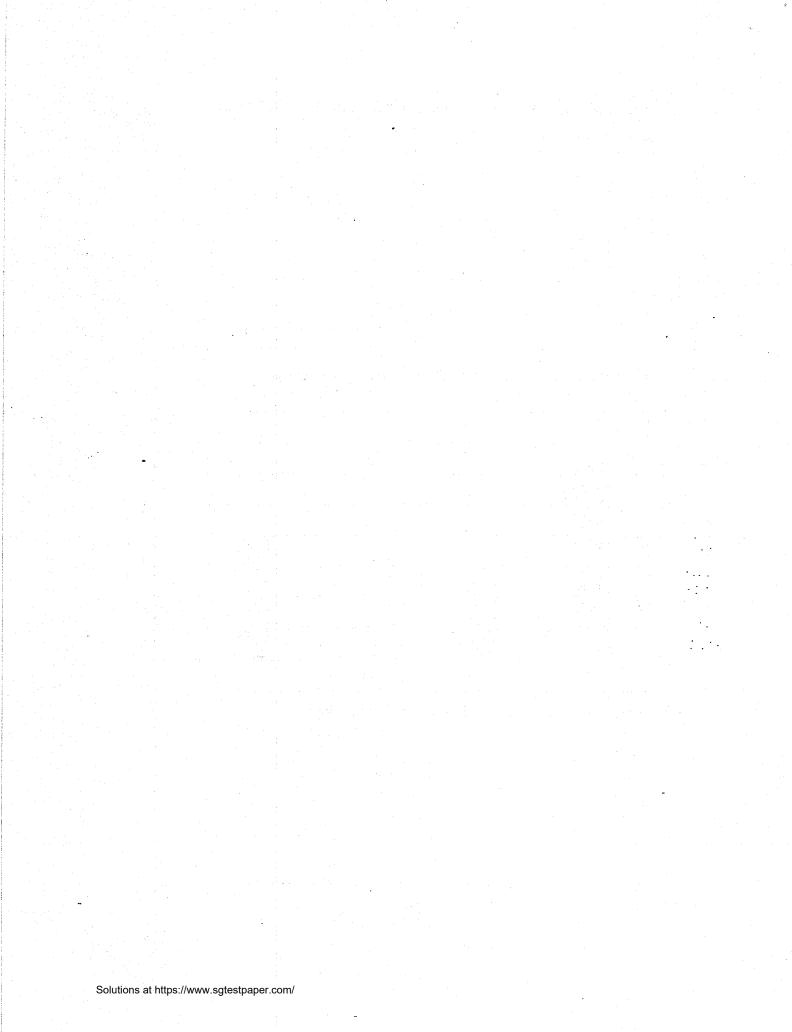
__ cm

27. Tank A has a square base area of 144 cm². Given that the ratio of the height of the tank to the breadth of the tank is 5:3, what is the capacity of Tank A?

Do not write in this column







SINGAPORE CHINESE GIRLS' SCHOOL **FIRST SEMESTRAL ASSESSMENT 2019**

PRIMARY 6

MATHEMATICS

PAPER 2

Name :

_()

Class : Primary 6 SY / C / G / SE / P

10 May 2019

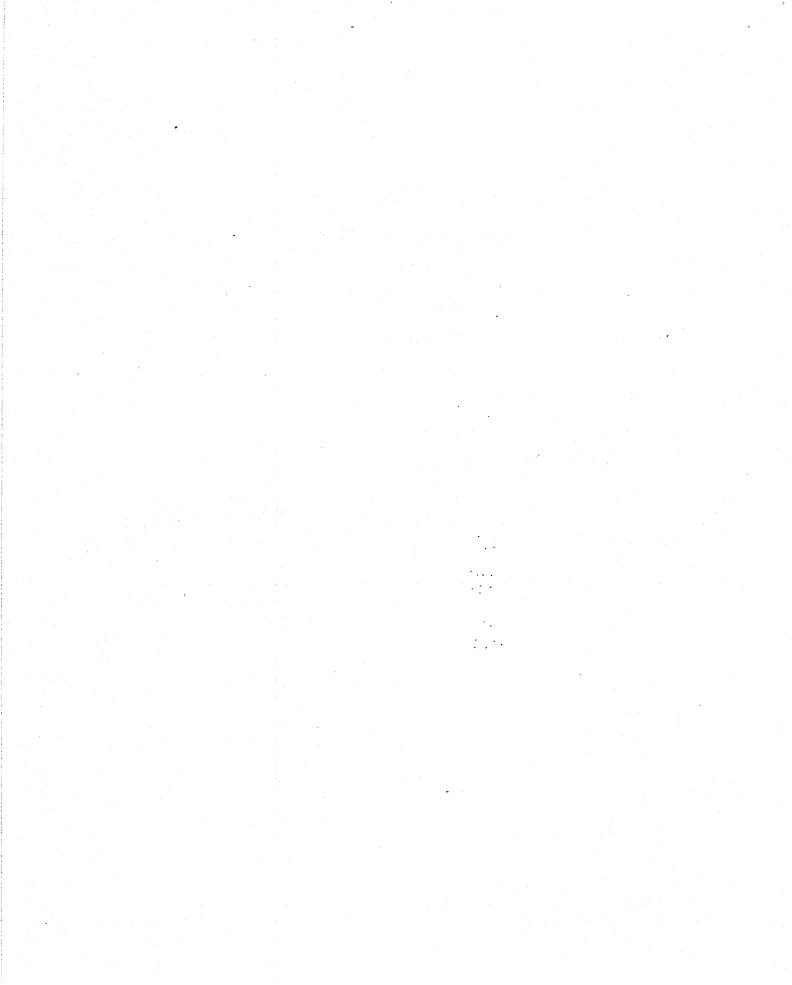
	Mark	Max Mark	Parent's Signature
Paper 2		55	

17 Questions 55 Marks

Total Time for Paper 2: 1 h 30 min

INSTRUCTIONS TO CANDIDATES Do not open this booklet until you are told to do so. Follow all instructions carefully. Answer all questions.

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



quire units, give your answe	rs in the units stated.		(10 marks)
At a baking class, 5.04			ents. How much
flour did each student g	et? Express your answe	er in grams	
	ан. А		
		Ans:	g
and a state of the s The state of the state			
The container below ha the container is 1296 cr	1 A. 1 A. 1 A. 1 A. 1 A. 7		
	1 A. 1 A. 1 A. 1 A. 1 A. 7		
	1 A. 1 A. 1 A. 1 A. 1 A. 7		
 A second s	1 A. 1 A. 1 A. 1 A. 1 A. 7		
	1 A. 1 A. 1 A. 1 A. 1 A. 7		
	1 A. 1 A. 1 A. 1 A. 1 A. 7		
	1 A. 1 A. 1 A. 1 A. 1 A. 7		
	1 A. 1 A. 1 A. 1 A. 1 A. 7		
	1 A. 1 A. 1 A. 1 A. 1 A. 7		
	1 A. 1 A. 1 A. 1 A. 1 A. 7		
	n ³ . What is the height o	f the container?	
	n ³ . What is the height o		

 A shop sells chocolate and vanilla cakes. 40% of the cakes are vanilla cakes. She sold 100 chocolate cakes. In the end, 60% of the cakes left are vanilla cakes. How many vanilla cakes are there?

Do not write in this column

Machine A and Machine B were switched on at the same time for 10 minutes.
 Machine A prints 120 pages per minute.
 After 10 minutes, Machine A printed 300 more pages than Machine B. What is
 Machine B's printing rate per minute?

2

Ans:

Ans:

5. A 2-digit number has a remainder of 5 when it is divided by 9. It has a remainder of 2 when it is divided by 11. Find the 2-digit number.

Ans:

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

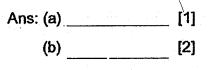
For questions 6 to 18, show your working clearly in the space below each question and write your answers in the space provided. The number of marks awarded is shown in the brackets [] at the end of the question or part-question. (50 marks)

Do not write in this column

6. Benjamin has \$8*m*. He has twice as much money as Cathy. Alice has \$5 more than Cathy.

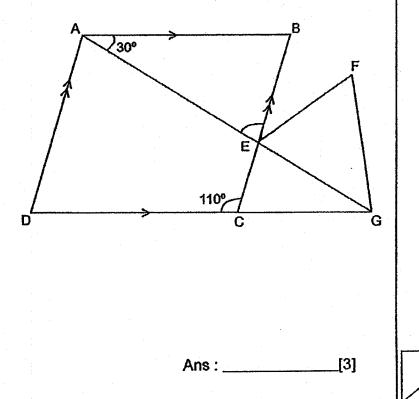
(a) How much money does Alice have? Express your answer in terms of m.

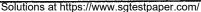
(b) Find the total amount of money they have if m = 10.

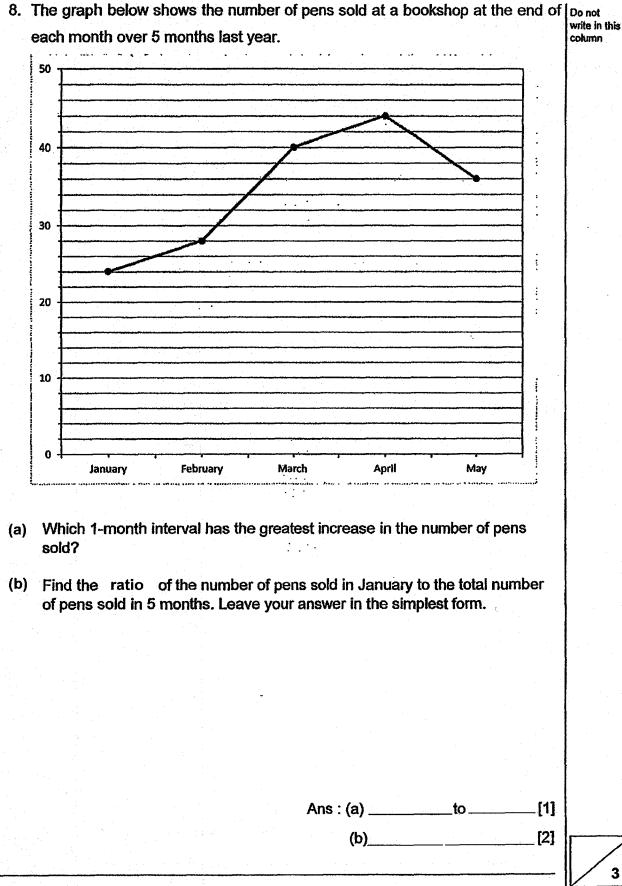


7. In the diagram below, not drawn to scale, ABCD is a parallelogram.

Find \angle BEG.







Brenda and Joe had \$420 altogether. After Brenda spent $\frac{5}{8}$ of her money and	Do not write in this column
Joe spent $\frac{1}{4}$ of his money, the amount of money Joe had became thrice as	
much as Brenda. How much money did Joe have at first?	

[3] Ans:

10. Rachel spent \$1200 of her salary on a television set and 60% of the remainder

on an oven. She had $\frac{1}{4}$ of her salary left. How much was her salary?

Ans:__

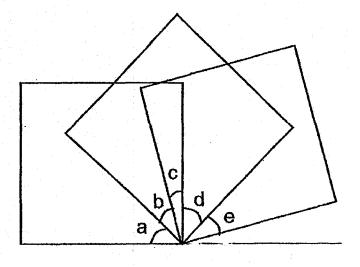
_ [3]

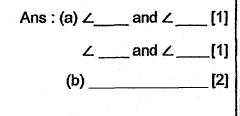
9.

11. The figure below, not drawn to scale, consist of 3 identical squares.

Do not write in this column

- (a) Which 2 pairs of angles are equal?
- (b) If $\angle c = 15^{\circ}$, find the sum of $\angle a$, $\angle b$, $\angle c$, $\angle d$ and $\angle e$.







12. Shanice needs to score 90 marks for her last Mathematics test in this semester so as to improve on her average score from 75 to 78. How many Mathematics tests were there altogether in a semester?

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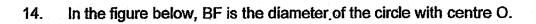
Ans:



[4]

13. Daniel had some apples and oranges. He threw away $\frac{1}{5}$ of the apples and write in this bought some oranges to replace the number of apples thrown away. He then gave $\frac{1}{4}$ of the apples and 25 oranges to his neighbours. In the end, he had 54 apples and 81 oranges left. How many oranges did he have at first?

[4]



B

A

ብ

D

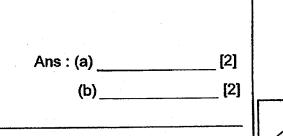
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F

Ε

BC = CD = DE = EF.

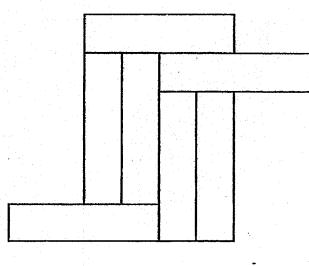
- (a) Find \angle FBC
- (b) Find \angle BFA



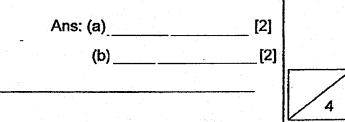
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Solutions at https://www.sgtestpaper.com/

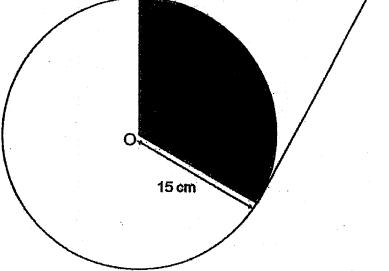
- 15. The diagram below is made up of 7 identical rectangular blocks. The area of 1 block is 64cm².
 - (a) What is the length of 1 rectangular block?
 - (b) What is the perimeter of the whole figure?



Do not write in this column



16. The figure below is not drawn to scale. It is made up of a circle, with centre O, and a four-sided figure $\frac{1}{3}$ of the circle and $\frac{3}{5}$ of the four-sided figure is shaded. Find the area of the whole figure. Leave your answer correct to 2 decimal places.



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

12

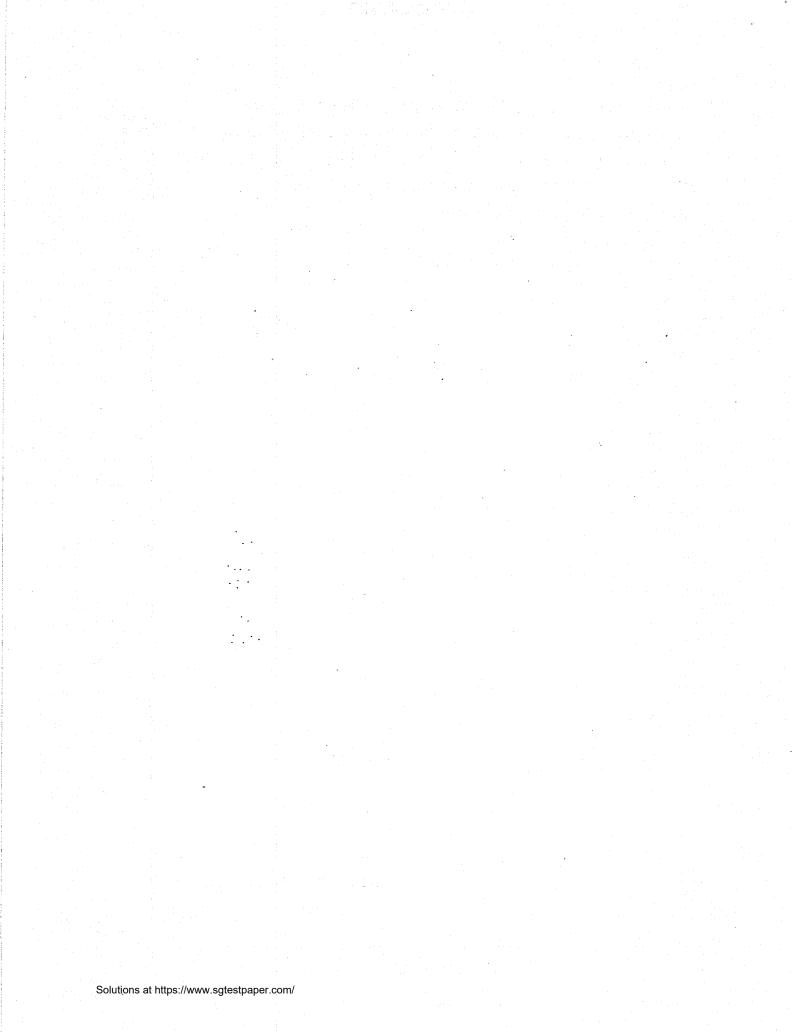
Ans:

[5]

17. Benedict and Calvin each have some money. If Benedict spends \$36 and Calvin spends \$12 daily, Calvin will have \$260 left after Benedict spends all his money. If Calvin spends \$36 and Benedict spends \$12 daily, Calvin will have \$20 left after Benedict spends all of his money. How much do they have respectively?

Do not write in this column

				-
	A	ns: Benedict:		· . -
		Calvin:	[5]	í .
	• • • • • • • • • • • • • • • • • • •	************************************	· · · · · · · · · · · · · · · · · · ·	
	End of Paper 2			5
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:	PRIMARY 6
:	MATH
:	2019 SA1
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PAPER 1 BOOKLET A

Q 1	Q2	Q3	_Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	4	3	2	2	1	1	3	·1	2.

Q 11	Q12	Q13	Q14	Q15
3	2	2	3	4

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PAPER 1 BOOKLET B

Q16)	23685		<u></u>
Q17)	$3 \div 8 = 0.375 \approx 0.3$	8	
Q18)	$2\div 5=\frac{2}{1}\times\frac{1}{5}=\frac{2}{5}$		····
Q19)	M: J :Total	M : J : Total	
	2:5:7	3:4:7	· .
	5 - 4 = 1		÷.*•
	1U→ \$9 × 7 = \$63		
Q20)	$1\% \rightarrow 50 \div 100 = 0.$	50	
	$107\% \rightarrow 0.50 \times 107$	= \$53.50	
Q21)	240 – 145 =95		
Q22)	10 x 2 = 20		
	20 x 20 = 400 (area c	of 8)	
	400 – (3.14 X 10 x 10))	
	$400 - 314 = 86 \text{ cm}^2$		
Q23)	(600 – 2x)		
Q24)	7 x 2 = 14		
	$\frac{22}{7} \times \frac{14}{1} = 44$		
	44 x 10 = 440		

Da1

·	
Q25)	
1	
Q26)	$16 \div 2 = 8$
1.45	8 x 9 = 72
	100cm – 72 cm = 28cm
Q27)	H : B : L
	5:3:3
	12 x 12 = 144
	3 U→ 12
	$1 U \rightarrow 12 \div 3 = 4$
	$5U \rightarrow 5 \times 4 = 20$
	$20 \times 12 \times 12 = 2880 \text{ cm}^3$
Q28)	180° – 125° = 55°
	180° – 130° = 50°
	55° + 50° = 105°
Q29)	100°
Q30)	1360 +600 +240 + 800 =3000
	$\frac{240}{3000} \times \frac{100}{1}$
	= 8%

PAPER 2

Q1)	5.04kg→6040g 5040 ÷ 8 = 630g	· · · · · · · · · · · · · · · · · · ·	<u>.</u>		- -	· ·	
	0040 · 0 - 000g					•	
Q2)	12 x 12 = 144	· · · · · · · · · · · · · · · · · · ·					-
	1296 ÷ 144 = 9						
	9 ÷ 3 = 3						
	3 x 5 = 15cm						
		·					
Q3)	3 x 5 = 15			• * * · · · · · ·			
-	2 x 5 = 10						
	15 - 10 = 5						
	5u→100						
	1u→100 ÷ 5 = 20						
	$20 \times 6 = 120$						

1 1 1 1 1	A : 1 min→120
Q4)	$10 \text{min} \rightarrow 120 \times 10 = 1200$
	B: $10 \text{min} \rightarrow 1200 - 300 = 900$
	$1 \text{min} \rightarrow 900 \div 10 = 90$
	Ans: 90
Q5)	9:
	9, 18, 27, 36, 45, 54, <u>63,</u> 72, 81, 90
	(14)(23)(32)(41)(50)(59)(<u>68)(77)(86)(95)</u>
	n 1997 - Andreas Andreas, and an
	11:
	11, 22, 33, 44, 55, <u>66, 7</u> 7, 88, 99, 110
	(13)(24)(35)(46)(57)(<u>68)(</u> 79)(90)(101)(112)
	Ans:68
Q6)	a)Ben→\$8m
	cathy→\$4m
	Alice→\$(4m+5)
	b)(8x10)+(4x10)+(4x10) + 5 = \$165
Q7)	$180^{\circ} - 110^{\circ} = 70^{\circ}$
	$110^{\circ} - 30^{\circ} = 80^{\circ}$
	$180^{\circ} - 70^{\circ} - 30^{\circ} = 80^{\circ}$
	180° – 80° = 100°
Q8)	a)February to March
	b)(24+28+40+44+36 = 172)
	24: 172
	6: 43
Q9)	4 x 3 = 12
	12 + 8 = 20
	420 ÷ 20 = 21
	21 x 12 = \$252
Q10)	2 x 4 = 8
	2 ~ 4 - 0 8 - 5 = 3
	3u→1200
	$1u \rightarrow 1200 \div 3 = 400$
	8u→400 x 8 = \$3200
Q11)	a) $< d$ and $< e$
	< a and < b
	b)90° + 90° -15° = 165°

Por

Q12)	90 – 78 =12	
	$12 \div 3 = 4$	
	4 + 1 = 5	
013)	81 + 25 = 106	
G(10)	$54 \div 3 = 18$	
•	106 - 18 = 88	
044		
Q14)	$180 \div 4 = 45$	
	180 - 45 = 135	
	135 ÷ 2 = 67.5	
	$180 - 90 - 45 = 45^{\circ}$	
1	a)67.5°	
	b)45°	
Q15)	a)64 ÷ 4 = 16	•
	4 x 4 = 16cm	
	b /1 + 16 + 1 + 2 + 16 + 2 + 16 + 1 + 2 + 16 = 112cm	
	b)4+16+4+8+4+8+16+8+16+4+8+16 = 112cm	
040	\sim	
Q16)	Area of circle = πr^2	
Q16)	Area of circle = πr^2 = $\pi (15)^2 = 706.86 cm^2$	
Q16)	Area of circle = πr^2 = $\pi (15)^2 = 706.86 cm^2$	
Q16)	Area of circle = πr^2 = $\pi (15)^2$ = 706.86cm ² Area of shaded region = $\frac{1}{3}(706.86) = 235.62cm^2$	
Q16)	Area of circle = πr^2 = $\pi (15)^2 = 706.86 cm^2$ Area of shaded region = $\frac{1}{3}(706.86) = 235.62 cm^2$ Area of four-sided figure= 235.62 x $\frac{3}{5} = 392.70 cm^2$	
	Area of circle = πr^2 = $\pi (15)^2 = 706.86 cm^2$ Area of shaded region = $\frac{1}{3}(706.86) = 235.62 cm^2$ Area of four-sided figure= 235.62 x $\frac{3}{5} = 392.70 cm^2$ Area of whole figure = 706.86 + 392.70 - 235.62 = 863.94cm ²	
Q16) Q17)	Area of circle = πr^2 = $\pi (15)^2 = 706.86 cm^2$ Area of shaded region = $\frac{1}{3}(706.86) = 235.62 cm^2$ Area of four-sided figure= 235.62 x $\frac{3}{5} = 392.70 cm^2$ Area of whole figure = 706.86 + 392.70 - 235.62 = 863.94 cm ² B : C B : C	
· · ·	Area of circle = πr^2 = $\pi (15)^2 = 706.86 cm^2$ Area of shaded region = $\frac{1}{3}(706.86) = 235.62 cm^2$ Area of four-sided figure= 235.62 x $\frac{3}{5} = 392.70 cm^2$ Area of whole figure = 706.86 + 392.70 - 235.62 = 863.94cm ²	
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· · ·	Area of circle = πr^2 = $\pi (15)^2 = 706.86 cm^2$ Area of shaded region = $\frac{1}{3}(706.86) = 235.62 cm^2$ Area of four-sided figure= 235.62 x $\frac{3}{5} = 392.70 cm^2$ Area of whole figure = 706.86 + 392.70 - 235.62 = 863.94 cm ² B : C B : C 36 X U : 12 X U + 260 36U=12P 12U=4P	
· · ·	Area of circle = πr^2 = $\pi (15)^2 = 706.86 cm^2$ Area of shaded region = $\frac{1}{3}(706.86) = 235.62 cm^2$ Area of four-sided figure= 235.62 x $\frac{3}{5} = 392.70 cm^2$ Area of whole figure = 706.86 + 392.70 - 235.62 = 863.94 cm ² B : C 36 X U : 12 X U + 260 36U=12P 3U=1P 12U=4P 3U=1P	
· · ·	Area of circle = πr^2 = $\pi (15)^2 = 706.86 cm^2$ Area of shaded region = $\frac{1}{3}(706.86) = 235.62 cm^2$ Area of four-sided figure= 235.62 x $\frac{3}{5} = 392.70 cm^2$ Area of whole figure = 706.86 + 392.70 - 235.62 = 863.94 cm ² B : C B : C 36 X U : 12 X U + 260 36U=12P 12U=4P	
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	Area of circle = πr^2 = $\pi (15)^2 = 706.86 cm^2$ Area of shaded region = $\frac{1}{3}(706.86) = 235.62 cm^2$ Area of four-sided figure= 235.62 x $\frac{3}{5} = 392.70 cm^2$ Area of whole figure = 706.86 + 392.70 - 235.62 = 863.94 cm^2 B : C 36 X U : 12 X U + 260 36U=12P 3U=1P 12U=4P 3U=1P 12U + 260 = 36P + 20 12U + 240 = 36P 36 - 4 = 32	
	Area of circle = πr^2 = $\pi (15)^2 = 706.86 cm^2$ Area of shaded region = $\frac{1}{3}(706.86) = 235.62 cm^2$ Area of four-sided figure = $235.62 \times \frac{3}{5} = 392.70 cm^2$ Area of whole figure = $706.86 + 392.70 - 235.62 = 863.94 cm^2$ B : C 36 X U : $12 \times U + 260$ $12 \times P : 36 \times P + 20$ 36U=12P 12U=4P 3U=1P 3U=1P	