BP~89	B	Ρ	~	8	9	
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		Index No.
Name :()	

Mathematics Teachers: EKY / ELAU / GAL / KRIS / WSW



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

SINGAPORE CHINESE GIRLS' SCHOOL PRELIMINARY EXAMINATION

PRIMARY 6

22 Aug 2023

MATHEMATICS PAPER 1 (BOOKLET A)

Additional materials: Optical Answer Sheet (OAS)

Total Time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

- 1. Write your index number in the boxes at the top right-hand corner.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Use a 2B pencil to shade your answers on the Optical Answer Sheet (OAS).
- 6. The use of calculators in NOT allowed.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.

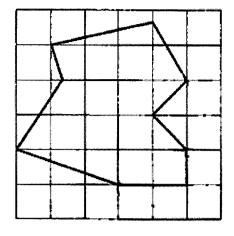
For each question, four options are given. One of them is the correct answer.

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

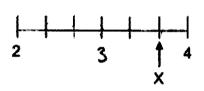
(20 marks)

- 1. In 652 009, what does the digit 2 stand for?
 - (1) 20
 - (2) 200
 - (3) 2000
 - (4) 20 000
- 2. Round off 49.456 to the nearest tenth.
 - (1) 50.0
 - (2) 49.5
 - (3) 49.4
 - (4) 49.0
- 3. Which one of the following is closest to 1?
 - (1) $\frac{6}{7}$
 - $(2) \qquad \frac{7}{8}$
 - (3) $\frac{10}{9}$
 - (4) $\frac{12}{11}$

- 4. In the given figure, how many pairs of lines are perpendicular to each other?
 - (1) 1
 - (2) 2
 - (3) 3
 - (4) 4



- 5. In the number line, which mixed number is represented by X?
 - (1) $2\frac{2}{3}$
 - (2) $2\frac{5}{6}$
 - (3) $3\frac{1}{6}$
 - (4) $3\frac{2}{3}$



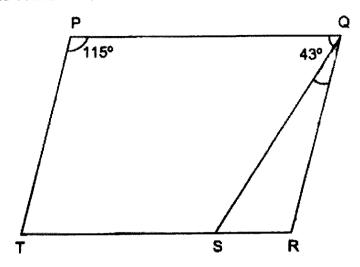
6. The table below shows the number of pupils with the following Math scores.

Math scores	85	88	90	91	95	98	100
Number of pupils	5	3	2	2	3	2	1

Prizes were given to the top 8 pupils. Gwen won a prize. What was the lowest she could have scored?

- (1) 88
- (2) 90
- (3) 91
- (4) 95

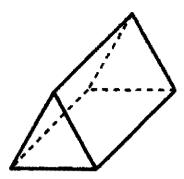
7. The figure below is not drawn to scale. PQRT is a parallelogram. \angle TPQ = 115° and \angle SQP= 43°. Find \angle RQS.



- (1) 22°
- (2) 48°
- (3) 50°
- (4) 72°
- 8. Arrange these values from the largest to the smallest.

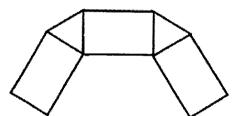
	1.005 i	1 l 50 ml	1550 ml	1 ¹ / ₂ l
	Largest			<u>Smallest</u>
(1)	1 ¹ / ₂ l	1.005 <i>l</i>	1 t 50 ml	1550 ml
(2)	1 1 1	1550 ml	1.005 <i>l</i>	1 t 50 ml
(3)	1550 ml	1 1 1	1 <i>l</i> 50 ml	1.005 /
(4)	1 l 50 mi	1.005 <i>l</i>	1550 ml	1 1 2 l

9. The figure below shows a prism.

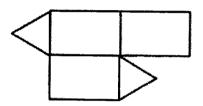


Which one of the following is a net of the prism?

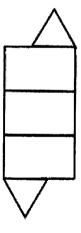
(1)



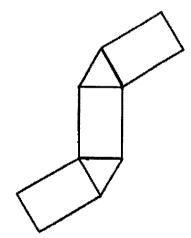
(2)



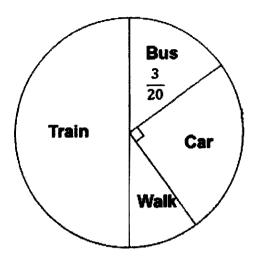
(3)



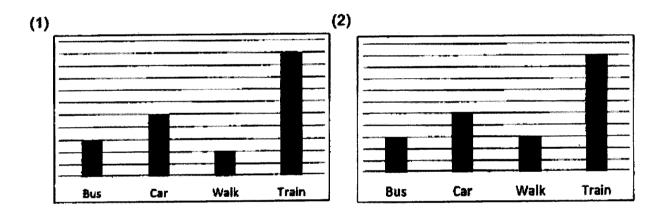
(4)

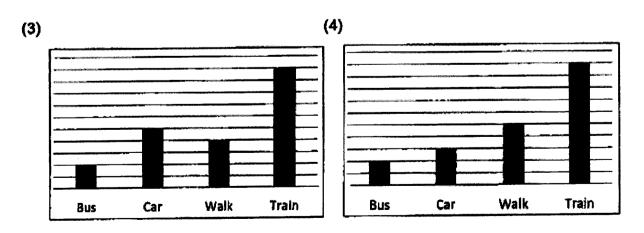


- 10. The pie chart shows the mode of transport taken by Primary Six students to school.
 - $\frac{1}{2}$ of the students take the train to school.

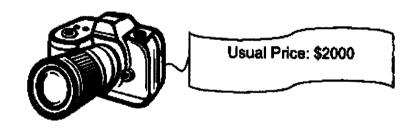


Which of the following bar graphs best represents the information in the pie chart?





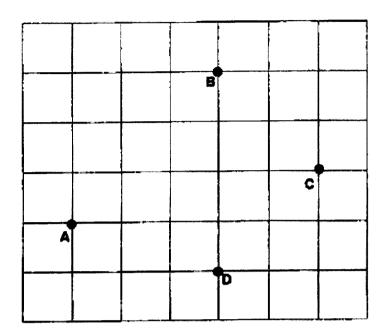
- 11. The total mass of Ben and Jerry is 100 kg. Jerry weighs 7.8 kg lighter than Ben. How heavy is Jerry?
 - (1) (100 + 2 + 7.8) kg
 - (2) (100 7.8 + 2) kg
 - (3) $(100 + \frac{7.8}{2})$ kg
 - (4) $(\frac{100-7.8}{2})$ kg
- 12. Adam Electronics Store gave a storewide discount of 20% during its annual sale. As a member of the store, Ming Hui is entitled to an additional 10% discount on the discounted price. He bought a camera during the sale.



How much did Ming Hui pay for the camera?

- (1) \$600
- (2) \$1400
- (3) \$1440
- (4) \$1600

13. The figure shows 4 points (A, B, C and D) in a square grid.





Which of the following statements is false?

- (1) D is south of B.
- (2) D is south-west of C.
- (3) A is north-west of D.
- (4) B is north-west of C.

14. Study the table below.

	Α	В	С	D
Row 1	4	5	6	7
Row 2	8	9	10	11
Row 3	12	13	14	15

*				
Row n				

Which algebraic expression is for Row n, Column C?

- (1) n+4
- (2) n+14
- (3) 4n + 2
- (4) 4n

15. A baker can either bake 100 big cookies or 150 small cookies using the same amount of ingredients. After baking 80 big cookies, what is the maximum number of small cookies he can bake with the remaining ingredients?

- (1) 20
- (2) 30
- (3) 70
- (4) 120

(Go on to Booklet B)

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		No
Name :()	
Class : Primary 6 SY / C / G / SE / P		



SINGAPORE CHINESE GIRLS' SCHOOL PRELIMINARY EXAMINATION

PRIMARY 6

22 Aug 2023

MATHEMATICS
PAPER 1
(BOOKLET B)

Total Time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.

Mathematics Teachers: EKY / ELAU / GAL / KRIS / WSW

- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
- 5. Do not use correction fluid/tape or highlighters.
- 6. The use of calculators in NOT allowed.

	Max Mark	Marks attained
Booklet B	25	

This booklet consists of 8 printed pages.

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)					
16.	5. Find the value of 82 hundreds, 4 tenths and 7 thousandths.				
	Ans:				
17.	Hui Ling paid \$5 for 20 pencils. What was the cost of each pencil in cents?				
	Ans:¢				
18.	Find the value of 7 – 3.18.				
	Ans:				

19.	A ribbon is 148.6 m long. It is cut into 200 equal pieces. How long is each
	piece of ribbon?

Do not write in this space

Ans: _____ m

20. Find the value of $\frac{4}{9} + \frac{2}{5}$.

Give your answer as a mixed number in its simplest form.

Ans:

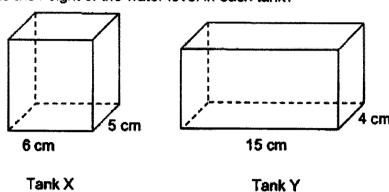
answ	stions 21 to 30 carry 2 marks each. Show your working clearly and write your yers in the spaces provided. For questions which require units, give your yers in the units stated. (20 marks)	Do not write in this space			
?1.	A can of mushroom soup costs \$3.20 and a bundle of 3 cans of mushroom				
	soup costs \$8. Diane wants to buy 20 cans of mushroom soup. What is				
	the least amount of money she needs?				
	Ans: \$				
22.	Siti has a string that is 5 m long. She cuts the string into equal pieces, each				
	measuring $\frac{3}{5}$ m. Find the length of the remaining piece of string.				
	Express your answer in metres.				
	Ans:n	1 4			

23.	Last month, Rachel saved \$90 and spent the rest of her pocket money. If she increased her spendings by 40%, her savings would decrease by 20%. How much was her pocket money?	Do not write in this space
	Ans: \$	
24.	Jane is p years old. She is twice as old as her brother. How old is her brother in 8 years' time? Express your answer in terms of p.	
	Ans:years old	4

25.	30 students shared a box of stickers equally. 6 students gave up their shares and their stickers were distributed equally to the rest of the students. As a result, the rest of the students received 2 more stickers each. How many stickers did each student have at first?	Do not write in this space
	Ans:	
26.	Jenny took 4 hours to paint a room.	
	Bala took 5 hours to paint an identical room.	
	At this rate, how long will they take if they paint such a room together?	
	Ans:h	1
***************************************		/ 4

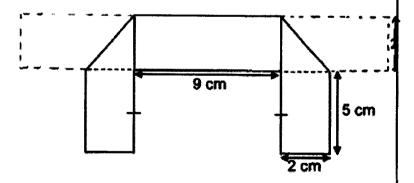
27. The figure below shows two rectangular tanks, X and Y. 540 cm³ of water was poured into X and Y until the heights of the water levels were the same. What was the height of the water level in each tank?

Do not write in this space



Ans:	cm

28. A rectangular piece of paper was folded to form the figure as shown as below. Find the perimeter of the rectangular piece of paper when it was unfolded.



Ans:		ÇM
------	--	----



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بين	1157	MI ILE	at.
rhi.	****	-	

Thomas and Siti had cookies in the ratio 3:7. After Thomas bought another 29. 42 cookies and Siti ate 18 cookies of her own, they had an equal number of cookies left. How many cookies did Siti have at first?

Ans:

Ben and Joel have \$288 altogether. $\frac{1}{4}$ of Ben's money is \$18 more than $\frac{1}{5}$ **30**. of Joel's money. How much does Joel have?

	Index No.	-
Name:	()

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

Mathematics Teachers: EKY / ELAU / GAL / KRIS / WSW



SINGAPORE CHINESE GIRLS' SCHOOL PRELIMINARY EXAMINATION

PRIMARY 6

22 Aug 2023

MATHEMATICS PAPER 2

Time: 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
- 5. Do not use correction fluid/tape or highlighters.
- 6. The use of an approved calculator is allowed.

		Max Mark	Marks attained
Paper 1	Booklet A	20	
	Booklet B	25	
Paper 2		55	
Total Marks		100	

Parent's	s Signature
	-

Do not write in this space

ans	estions 1 to 5 carry 2 marks each. Show your working clearly and write your swers in the spaces provided. For questions which require units, give your swers in the units stated. (10 marks)
*	a
	Measure and write down the size of angle a.
	Ans:
2.	Ken and Ben have the same number of sweets. Ken ate $\frac{1}{2}$ of his sweets and
	gave $\frac{1}{2}$ of his remaining sweets to Ben. After that, Ben has 35 sweets. How
	many sweets did Ken have at first?
	Ans:
3.	Mrs Lim bought a blender at 20% discount during a sale. She paid \$90.72 including 8% GST. What is the original price of the blender?
	Ans: \$

4. The pie chart and the table below show the number of each type of stickers sold in two shops, A and B.

Do not write in this space



Pastel	10%		
Silver	25%		
Rainbow	50%		
Shiny	15%		

Shop B

Each statement is either true, false or not possible to tell from the information given. Put a tick (\checkmark) to indicate your answer.

Statement	True	False	Not possible to tell
Shop A sold 100 stickers.			
Shop A sold more pastels stickers than Shop B.			
25% of the stickers Shop A sold are rainbow stickers.			

5. Mrs Tan prepared some sticks of satay and muffins for her students. The ratio of the number of sticks of satay prepared to the number of muffins prepared was 3:1. Each student was given 5 sticks of satay and 2 muffins. There were 52 sticks of satay left after all the muffins were given out. How many students are there?

Ans: _____

For questions 6 to	17, show your working clearly and write your ans	wers i	n the
spaces provided.	The number of marks available is shown in brack	cets [] at the
end of each question or part-question.		(45 m	narks)
	A 18 (18 (18 (18 (18 (18 (18 (18 (18 (18		

Do not write in this space

6. The table shows the cost of parking in SC Mall.

	1 st hour	Subsequent 30 minutes
***************************************		or part thereof
Monday to Thursday	\$2.70	\$1.30
Friday to Sunday	\$2.60	\$1.89

(a) On Tuesday, Mr Salim parked his car for 3 hours in the carpark starting from 8.30 a.m. How much did he pay for carpark charges?

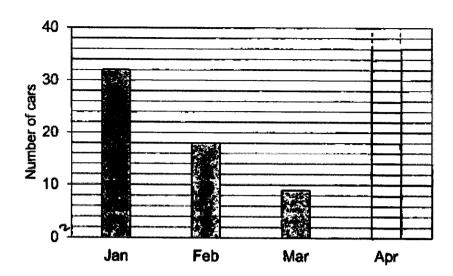
Ans: (a)	. [1		
----------	-----	---	--	--

(b) Jamie was charged \$12.05 for parking her car in the mall from 10 a.m. on a Saturday. What is a possible time she left the mall?

Ans:	(b)			2	
------	-----	--	--	---	--

7. The bar graph below shows the number of cars sold from January to March.

Do not write in this space



- (a) The number of cars sold in March is $\frac{1}{4}$ of the number of cars sold in April.

 Draw and shade the bar representing the number of cars sold in April. [1]
- (b) What is the average number of cars sold from January to April?

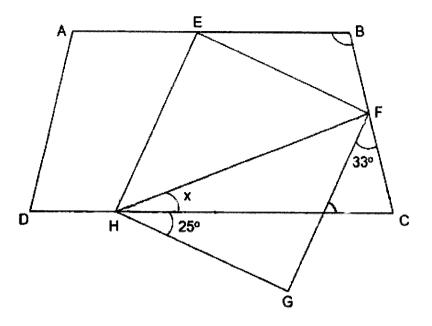
Ans: _____[2]

8.	The radius of Circle A is 3 times the radius of Circle B. Circle A makes 12 revolutions to roll from X to Y. (Take π = 3.1	4)	Do not write in this space
	X X	- Y	
	Circle A		CONTRACTOR
	<u>x</u>	- Y	- Andrewski de And
	Circle B		
	(a) How many revolutions will Circle B take to roll from X to Y?		
	Ans:	[1]	4000
	(b) The radius of Cicle A is 12 cm. What is the length of XY?		West after a second and a second a second and

	Ans:	[2]	
			11 / 2

9. In the figure below, not drawn to scale, EFGH is a square overlapping a trapezium ABCD. AB // DC, ∠CHG = 25° and ∠IFC = 33°.

Do not write in this space



(a) Find ∠x.

Ans: (a) _____[1]

(b) Find ∠EBF.

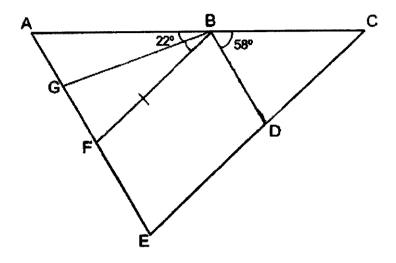
Ans: (b)______[3]

10.	A car and a bike set off from Town B in opposite directions at 09 30. The car travelled towards Town A at a constant speed of 80 km/h while the	Do not write i this space
	bike travelled towards Town C at a constant speed of 62 km/h. When the car reached Town A at 12 30, the bike was still 28 km away from Town C.	
	(a) How far did the car travel?	
	Ans: (a)[1]	
	(b) What was the distance between Town A and Town C?	
	Ans:[2]	3

11.	En En packed all 732 cookies into a mixture of large and small boxes. He filled each large box with 30 cookies and each small box with 22 cookies. All the boxes are filled with no cookies left over. What is the least number of boxes used by En En?	Do not write in this space
	Ans:[3]	

12. In the figure below, ACE is a triangle, BDEF is a parallelogram, BFG is an isosceles triangle and AE parallel to BD.

Do not write in this space



(a) Find ∠GBD.

Ans: (a) _____[1]

(b) Find ∠GBF.

Ans: (b) _____[2]

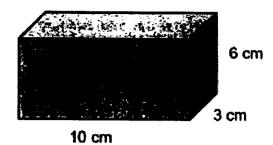
(c) Find ∠BDC.

Ans: (c) _____[1]



13. Freddy had a rectangular block measuring 10 cm by 3 cm by 6 cm. He painted |Do not write in all the faces of the block.

this space



(a) Calculate the total painted area.

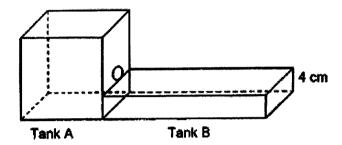
\ns:	(a)	[2]

(b) Freddy wants to cut the largest possible cube from the rectangular block. What is the greatest number of such cubes he can cut from the rectangular block?

> Ans: (b) [2]

	Do not write in this space
1	this sonon

14. Tank A and Tank B shown below are empty at first.
Tank A has a base area of 441 cm². When water was poured into Tank A, some of the water flowed into Tank B through the hole which was just above
Tank B. Tank B was ⁴/₇ filled and the total amount of water in both tanks



(a) Find the amount of water in Tank A.

became 5324 cm³.

Ans:	(a)		[2	
------	-----	--	----	--

(b) What is the capacity of Tank B?

Ans: (b) _____[3]

15. There were 600 adults attending a concert at Fort Canning Park. After $\frac{5}{8}$ of the men and 165 of the women left the concert, the ratio of the number of the remaining men to the number of remaining women became 1 : 7. What was the ratio of the number of men to the number of women at first? Leave your answer in its simplest form.

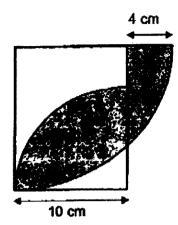
Do not write in this space

Ans: _____[4]

16. The figure below is formed by 2 quadrants and a rectangle overlapping one another. The radius of the smaller quadrant is 10 cm.
Find the area of the shaded part of the figure.

Do not write in this space

(Take $\pi = 3.14$)



Ans: _____[5]

/5

	number of red balloons to the number of blue balloons to the number of green balloons was 15: 12: 28. After bursting some green balloons and buying	
	another 168 blue balloons, he found that there was a decrease of 25% in the total number of blue and green balloons. In the end, the number of red, blue and	
	green balloons he had was 1440.	
	(a) How many balloons did Mr Wong have at first?	,
(Ans: (a)[2] b) How many green balloons burst?	
	Ans: (b)[2]	
	End of Paper 2	
	~ Please check your work thoroughly. ~	/

15

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SCHOOL: SCGS SCHOOL

LEVEL

PRIMARY 6

LEVEL: PRIMARY 6
SUBJECT: MATH
TERM: 2023 PRELIM

PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	2	4	2	4	3	1	3	4	1

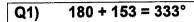
Q 11	Q12	Q13	Q14	Q15
4	3	3	3	2

PAPER 1 BOOKLET B

Q16)	8200.407
Q17)	25c
Q18)	3.82
Q19)	0.743m
Q20)	$1\frac{1}{9}$
Q21)	\$54.40
Q22)	1/5 m
Q23)	\$135
Q24)	$\frac{p}{2}$ + 8 years old
Q25)	30 - 6 = 24
	2 x 24 = 48
	48 ÷ 6 = 8
Q26)	2 ² ₉ h
Q27)	X→6 x 5 = 30
	Y→15 x 4 = 60
	60 + 30 = 90
	$\frac{540}{90} = 6 \text{ cm}$
Q28)	50cm

Q29)	105			 	-		
Q30)	\$120		 ** - ** - ***	 		 	<u></u>

PAPER 2



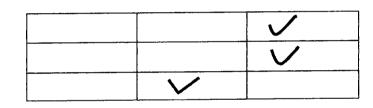
Q2)
$$5u \rightarrow 35$$

 $1u \rightarrow 35 \div 5 = 7$
 $4u \rightarrow 7 \times 4 = 28$

Q3)
$$90.72 \div \frac{108}{100} 84$$

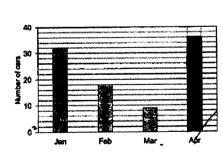
$$84 \div \frac{80}{100} = \$105$$

Q4)



Q6) a)\$7.90 b)1.30 p.m.

b)32 + 18 + 9 + 36 = 95 95 ÷ 4 = 23.75



Q8)	a)3u = 12
	1u = 12 ÷ 3 = 4
	$9u = 4 \times 9 = 36$
	b)D= 12 x 2 = 24
	$3.14 \times 24 = 75.36$
	75.36 x 12 = 904.32 cm
Q9)	a) <x -="" 25="20°</td" 45="" 90="" ==""></x>
	b) <hig→180 -="" 25="65</th" 90=""></hig→180>
	<icf→ 180="" 33="82</th" 65="" –=""></icf→>
	<ebf 180="" 82="98°</th" –="" →=""></ebf>
Q10)	a)240km
	b)454km
Q11)	6 box →22 x 6 = 132
	732 – 132 = 600
	600 ÷ 30 = 20
	6 small + 20 big = 26 box
Q12)	a) <gbd→180 -="" 22="100°</td" 58=""></gbd→180>
	b) <bgf→180 -="" 100="80</th"></bgf→180>
	<gbf→180 -="" 80="20°</th"></gbf→180>
	c) <bff→180 -="" 80="100</th"></bff→180>
	<bdc→180 -="" 100="80°</th"></bdc→180>
Q13)	a)120 + 36 + 60 = 216 cm2
	b)10 ÷ 3 = 3 R1
	3 ÷ 3 = 1
	6 ÷ 3 = 2 3 x 1 x 2 = 6
,	VAIA4-U

Q14)	a)441 x 4 = 1764 cm3
	b)5324 - 1764 = 3560
	$\frac{4}{7} \rightarrow 356$
	$\frac{4}{7}$ \rightarrow 3560 ÷ 4 = 890
	$\frac{7}{7}$ >890 x 7 = 6230 cm3
045)	1:4
Q15)	1.4
Q16)	92.36cm2
Q17)	a)1760
	b)488