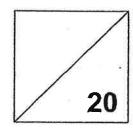


2019 PRIMARY 6 SEMESTRAL ASSESSMENT 1

Name	Date: <u>15 May 2019</u>
Class: Primary 6	Time: <u>8.00 a.m 9.00 a.m.</u>
Parent's Signature:	/ 100

Paper 1 comprises 2 booklets, A and B.

PAPER 1 (BOOKLET A)



INSTRUCTIONS TO CANDIDATES

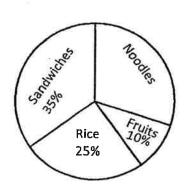
- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 6. You are not allowed to use a calculator.

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).

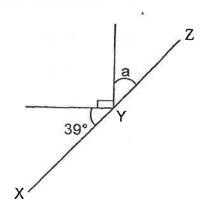
Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

- 1. Round 42 509 to the nearest thousand.
 - (1) 40 000
 - (2) 42 000
 - (3) 42 500
 - (4) 43 000
- What does the digit 8 in 6.583 stand for?
 - (1) 8 ones
 - (2) 8 tenths
 - (3) 8 hundredths
 - (4) 8 thousandths
- 3. The pie chart shows the different types of food a group of workers bought for their lunch. What is the ratio of the number of workers who bought noodles to the number who bought sandwiches?
 - (1) 6:7
 - (2) 7:6
 - (3) 3:10
 - (4) 7:20

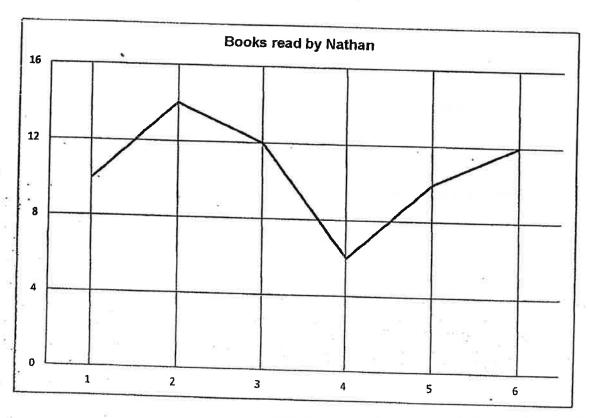


- 4. Which one of the following is the most common length of an adult's bed?
 - (1) 2 m
 - (2) 2 cm
 - (3) 20 m
 - (4) 20 cm
- 5. A rectangular plank has a perimeter of 150 cm. Its breadth is 30 cm. Find its area.
 - (1) 5 cm²
 - (2) 1350 cm²
 - (3) 2940 cm²
 - (4) 3600 cm²
- 6. XYZ is a straight line. Find ∠a.
 - (1) 39°
 - · (2) 41°
 - (3) 51°
 - (4) 102°



- 7. Jamie paid \$10 for a box of 50 erasers. How much did each eraser cost?
 - (1) 5¢
 - (2) 2¢
 - (3) 20¢
 - (4) 50¢
- $\frac{1}{2}$ 8. What is the value of 20 6 ÷ 2 x (2 + 3)?
 - (1) 5
 - (2) 15
 - (3) 35
 - (4) 85
 - 9. Kelly is facing the north-east direction. How should she turn so that she faces west?
 - (1) 45° clockwise
 - (2) 135° clockwise
 - (3) 135° anti- clockwise
 - (4) 225° anti- clockwise

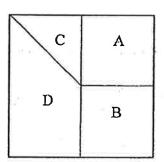
10. The graph below shows the number of books read by Nathan in 6 weeks. His target is to read a minimum of 12 books in a week. How many weeks did Nathan achieve this target?



Week

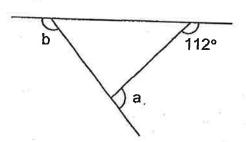
- (1) 1
- (2) 2
- (3) 3
- (4) 4

- 11. Mrs Chew paid \$46 for an electric iron after a discount of 60%. What was the price of the electric iron before discount?
 - (1) \$18.40
 - (2) \$27.60
 - (3) \$73.60
 - (4) \$115
- 12. The figure shown is a square made up of four parts, A, B, C and D. A and B are squares that form 50% of the figure. Which of the following two parts will add up to form $\frac{5}{8}$ of the figure?
 - (1) A and C
 - (2) B and C
 - (3) C and D
 - (4) A and D



- Sam is e years old now. In 10 years' time, his mother will be thrice as old as he. How old is Sam's mother now?
 - (1) (3e 10) years
 - (2) (3e 20) years
 - (3) (3e + 10) years
 - (4) (3e + 20) years

- Melvin does his morning exercise by climbing up and down the stairs in his block. He always starts at the floor where his flat is. He goes up 4 floors, down 6 floors and then up 5 floors, to finish on the 8th floor. At what floor is Melvin's flat?
 - (1) 5th
 - (2) 11th
 - (3) 3rd
 - (4) 4th
- 15. In the figure, $\angle a + \angle b =$



- (1) 68°
- (2) 112°
- (3) 136°
- (4) 248°

End of Booklet A
Go on to Booklet B

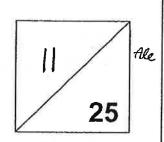


2019 PRIMARY 6 SEMESTRAL ASSESSMENT 1

Name	()	Date: <u>15 May</u>	2019
Class : Primary 6			Time: 8.00 a.r	n 9.00 a.m.
Parent's Signatur				No.
	4 5	- N	6 .	

Paper 1 comprises 2 booklets, A and B.

PAPER 1 (BOOKLET B)



INSTRUCTIONS TO CANDIDATE

- 1. Write your name, class and register number.
- Do not turn over this 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. You are not allowed to use a calculator.

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.	Roun	d the produ	ct of 5.78	36 and 10	00 to the	neares	t whole r	number.	
	×								
			ż						
		*	* .	(4)				6	
3	9	383:60					Ans:		
7.	The pe	erimeter of	a square	is 1 m. F	ind its a	rea.			
7.	The pe	erimeter of	a square	is 1 m. F	ind its a	rea.			
7.	The pe	erimeter of	a square		find its a	rea.			
7.	The pe	erimeter of			find its a	rea.			
	The pe	erimeter of			find its a	rea.			
	The pe	erimeter of			find its a	rea.			
7.	The pe	erimeter of			ind its a		Ans:		m²

 In the table below, Ms Tan recorded the number of books her students read in a week.

No. of books read	0	1	2	3	4
No. of students	3	16	10	18	3

How many students read at least 2 books?

Ans:	

19. Simplify 8m - 3 - m + 8.

Ans: _____

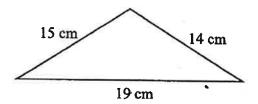
20. Express 0.5% as a fraction. Express your answer in the simplest form.

Ans: _____

Questions 21 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

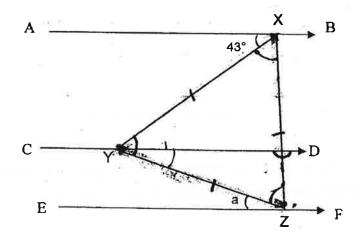
21.	Write down all	the common facto	ors of 12 and	42 .	
		8			
				3	
			*		
	381 20	ž. 2		9	
	•	eans (. 1		
	₹.		± Š	Ans:	3
		950 H (250 A) H			
22.	on a dress, Joan	$\frac{1}{5}$ of her money onne has \$80 left. I	n a handbag How much mo	and $\frac{1}{5}$ of her remains	aining mone
		8 ¹²⁷ × 2			
	₹5		<u>a</u>		
		.5	+	×	
	<u>.</u>	5			章 蒙
	문	\$. 		Ans: \$	
23.	Jennifer baked 12 How many eggs o	20 tarts. For every did she use altoge	15 tarts, Jen	······································	
23.	Jennifer baked 12 How many eggs o	20 tarts. For every did she use altoge	15 tarts, Jen	······································	
23.	Jennifer baked 12 How many eggs o	20 tarts. For every did she use altoge	15 tarts, Jen	······································	
23.	Jennifer baked 12 How many eggs o	20 tarts. For every did she use altoge	15 tarts, Jen	······································	
23.	Jennifer baked 12 How many eggs o	20 tarts. For every did she use altoge	15 tarts, Jen	······································	
3.	Jennifer baked 12 How many eggs o	20 tarts. For every did she use altoge	15 tarts, Jen ther?	······································	
23.	Jennifer baked 12 How many eggs o	20 tarts. For every did she use altoge	15 tarts, Jen	······································	

The perimeter of the triangle shown below is 2 times that of a rectangle. The length of the rectangle is 8 cm. Find its breadth.



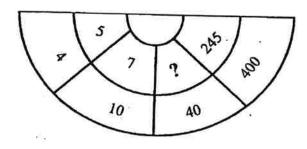
Ans: _____ cm

25. In the figure below, AB // CD // EF. XYZ is an equilateral triangle. Find ∠a



Ans: _____

26. What is the missing number?



Ans:

A 8 m piece of string is cut into shorter pieces. Each piece measures $\frac{3}{4}$ m, except for the last piece. What is the length of the last piece?

Ans: _____ m

28. At a cafe, Ken paid \$8.20 for a curry puff and 4 almond muffins. Mariam paid \$17.20 for a curry puff and 10 almond muffins. Sheila bought a curry puff. How much did she pay?

Ans: _____

29. A rectangular tank was half-filled with water. Jeremy realized that he needed another 332 cm³ of water to make it $\frac{3}{5}$ full. How many litres of water would there be in the tank when it was completely full?

Ans: _____

30. Raymond always saved 45% of his salary. When his salary decreased by 20% in April, his savings decreased by \$180. How much was Raymond's salary before the decrease?

Ans: \$____

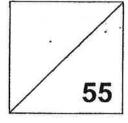
End of Booklet B End of Paper 1



2019 PRIMARY 6 SEMESTRAL ASSESSMENT 1

Miles (Meg	1 000 mg 150 Ger 31	*	~
Name	3 T	Date: <u>15 May 201</u>	9
Class : Primary 6 (×	Time: <u>10.30 a.m -</u>	12.00 noon
Parent's Signature :	-		

MATHEMATICS PAPER 2



INSTRUCTIONS TO CANDIDATE

- 1. Write your name, class and register number.
- Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Show your working clearly as marks are awarded for correct working.
- 6. You are allowed to use a calculator.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

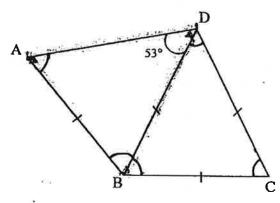
1. A marking is drawn every $\frac{1}{10}$ km in a straight foot path that measures $\frac{4}{5}$ km long. How many markings are there on the foot path, including the one at the start?

Ans: _____

2. The ratio of Karl's age to Tim's age is 2 : 3. Karl is 14 years old now. How old was Tim 1 year ago?

Ans: _____ years old

3. The figure below is not drawn to scale. ABCD is a four- sided figure. BCD is an equilateral triangle. Find ∠ABC.



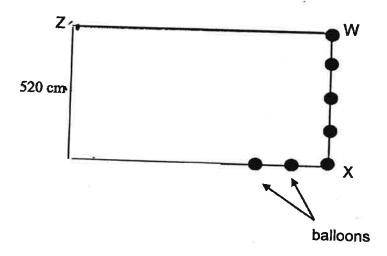
100

Ans: _____

4. Lay Kim sold (m + 6) tickets on Saturday. She sold m more tickets on Sunday than on Saturday. Altogether, she sold 48 tickets on the two days. Find the value of m.

Ans: _____

5. A total of 18 balloons are hung at an equal distance apart along three sides WX, XY and YZ of a rectangular stage. The figure shows part of the set-up. The breadth of the stage is 520 cm. What is the length of the stage?

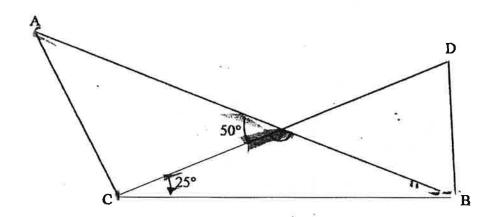


Ans : _____cm

For questions 6 to 17, show your working clearly in the space provided for each question 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.

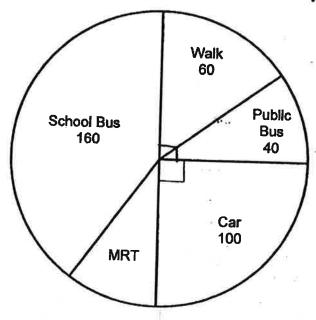
(45 marks)

6. In the figure below, not drawn to scale, AB and CD are straight lines that intersect at Y such that CY = YD. Find ∠CBD.



Ans:	[3]
------	-----

7. The pie chart below shows the number of students travelling to school by different ways. What percentage of the students travel to school by MRT?



Ans:	ſ	3
	 T.	•

8.	The price of one notebook is \$3.80 can buy one more notebook at half notebooks that a customer can buy	the price. Wh	omer buys at is the gre	3 such not eatest num	ebooks, he ber of	;
	9					
	4)					
			9			
		96727				
	8.				13	¥2
				:		
			Ans:	:31 	[3]	
	a) What was the percentage chb) If there were 168 butterflies le January?				7	
			3 1			
					ž.	025
						- 5
	9	ě				
			Ans: (a)	(2	[2]	İ
			(b)		[1]]

Madam Lydia bought some white noodles and some yellow noodles. She cooked an equal amount of white and yellow noodles. She had $\frac{3}{8}$ of the white noodles and $\frac{3}{4}$ of the yellow noodles left. What fraction of the noodles which Madam Lydia bought was cooked? (Leave your answer in the simplest form.)

Ans:_____[3]

- 11. Mrs Munah used $\frac{7}{10}$ of a packet of flour to bake some cookies. She then had $\frac{2}{5}$ kg of flour left.
 - a) What was the mass of flour in the packet at first? Leave your answer in kg.
 - b) Given that Mrs Munah used $\frac{1}{15}$ kg of flour for each cookie, how many cookies did she bake?

Ans (a)	[2]

	Je the	essica bought a dress and a handbag at a discount. She spent a total of \$330 ese two items. She spent \$30 more on the handbag than on the dress.
	a)	How much did she spend on the handbag?
	b)	The total discount given for the two items was \$95. She was given a 20% discount for the handbag. What was the percentage discount given for the dress?
		580
2.5	172	

Ans: (a)	[1]
8	
(b)	(3]

13. At a pharmacy, a \$2 voucher was given for every \$15 spent. Mary bought 3 bottles of shampoo and 2 bars of soap. Each bar of soap costs $\frac{2}{3}$ as much as 2 bottles of shampoo. Mary realised that she had to spend another \$6.45 to get exactly \$8 worth of vouchers. What was the cost of 1 bar of soap?

Ans: _____[4]

- 14. Thomas had a carton of milk. He drank the same amount of milk everyday. At the end of the 12^{th} day, he was left with $\frac{2}{5}$ of the milk. At the end of the 15^{th} day, which was a Tuesday, he was left with 1200ml of milk.
 - a) What fraction of the milk did he drink each day?
 - b) From the 16th day, he decided to drink twice the amount of milk which he used to drink daily. On which day would he finish the remaining milk?

Ans (a)	[1]
(b)	

15.	Amanda, Bob and Caren went to a bakery to buy a birthday cake for their mother.
	They shared the cost of the cake equally. However, Amanda did not bring any
	money. Bob and Caren paid for the cake first.
	The ratio of the amount Bob paid to the amount Caren paid was 5 : 3. When they
	reached home, Amanda returned her share of the bill to Bob and Caren. She paid
	Bob \$5.60.

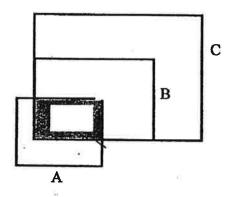
- a) How much did Amanda pay Caren?b) How much did the birthday cake cost?

Ans: (a)	[2]
(b)	[2]

16.					y bank each da y putting in a \$1 ne piggy bank a			
					iggy bank altoge			
			of the coins					
	×						e	
	or Sign	8			40)+		
	13.	*						
				*			9	
5								
	18.11			t e			K : V := 0: K := 0:	·
	5						::•-	
			2			ii.		
		ø	*	ÿ €	**			
					Ans: (a)_		_ [2]	

(b)_____[3]

17. The figure below is made up of overlapping rectangles, A, B and C. The area of B is twice the area of A and $\frac{4}{7}$ the area of C. $\frac{3}{8}$ of B is shaded. The area of A is 144 cm². Find the unshaded area of the figure.



Ans: ______[5]

End of Paper 2

E B

ANSWER KEY

YEAR : 2019

LEVEL : PRIMARY 6

SCHOOL: TAO NAN SCHOOL SUBJECT: MATHEMATICS

TERM : SA1



SECTION A

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

SECTION B

	TION B
Q16	579
Q17	$Area = \frac{1}{4} \times \frac{1}{4}$
	$=\frac{1}{16}m^2$
Q18	10 + 18 + 3 = 31
Q19	7m + 5
Q20	$\frac{0.5}{100} = \frac{1}{2} \div 100$ $\frac{0.5}{100} = \frac{1}{2} \times \frac{1}{100}$
Q21	$= \frac{1}{200}$ 1,2,3,6
Q22	Remain $\rightarrow 1 - \frac{1}{5} = \frac{4}{5}$ $\frac{2}{5} \times \frac{4}{5} = \frac{8}{25}$ 8u = \$80
	$1u = \$80 \div 8 = \10 $25u = \$10 \times 25 = \250
Q23	120 ÷ 15 = 8 (8 sets of 15 tarts) 8 x 3 = 24
Q24	Total length of triangle \rightarrow 19 + 15 + 14 = 48 Total length of rectangle \rightarrow 48 \div 2 = 24 Total length of breath \rightarrow (24 – [2x8]) \div 2 = 4
Q25	<dyz -="" 43="17<br" 60="" ==""><a 17°<="" =="" th=""></dyz>
Q26	5 x 7 = 35
Q27	³¼m = 100 ÷ 4 x 3 = 0.75m 8m ÷ 0.75m = 10R0.5 Answer → 0.5m

Q28	17.20 - 8.20 = \$9		
	6muffins = \$9		€
2	1muffin = \$9 ÷ 6 = \$1.50		
	4muffins = \$1.50 x 4 = \$6		livor.
	\$8.20 - \$6 = \$2.20	_	4168 Delivery: 9805
Q29	$\frac{3}{-} - \frac{1}{-} = \frac{6}{-} - \frac{5}{-} - \frac{1}{-}$		_ &
	$\frac{5}{5} - \frac{2}{2} = \frac{10}{10} - \frac{10}{10} = \frac{10}{10}$		9828
	1u = 332cm ³		38,
020	10u = 3320cm ³ = 3230ml = 3.32L		8
Q30	\$180 ÷ 20 = \$9		0 2 1918 9210
- 1	\$9 x 100 = \$900 (saving)		
	45% = \$900	2 ^	
	1% = \$900 ÷ 45 = \$20		
	100% = \$2000		
		· ,	

SECTION C

Q1					
	$\frac{4}{5} \div \frac{1}{10} = \frac{8}{10} \times \frac{10}{1}$				74
	8	8 2	2		<u> </u>
II.	= 1	((4))			
	= 8 + 1				
	= 9				
Q2	1u = 14 ÷ 2 = 7				
	$3u = 7 \times 3 = 21$. 5 .		x	
100	21 – 1 = 20				
Q3	<abd -="" 180="" 53="" =="" td="" °="74" °<=""><td></td><td></td><td></td><td></td></abd>				
	<abc +="" 60°="" 74°="134°</td" ==""><td> *</td><td>lg.</td><td></td><td></td></abc>	*	lg.		
Q4	2m + m + 6 + 6 = 3m + 12	(4)			
	48 – 12 = 36	5		2:	
	36 ÷ 3 = 12				
Q5	520 ÷ 4 = 130		* 1		×
	9 x 130 = 1170			-	
Q6	<cyb -="" 180°="" 50°="130°</td" ==""><td></td><td></td><td></td><td></td></cyb>				
	<ybc -="" 130°="" 180°="" 25°="25°</td" ==""><td></td><td></td><td></td><td></td></ybc>				
	$<$ YBD = $(180^{\circ} - 50^{\circ}) \div 2 = 65^{\circ}$				
	<cbd +="" 25°="90°</td" 65°="" ==""><td></td><td></td><td></td><td></td></cbd>				
Q7	100 x 4 = 400				
	400 - 160 - 60 - 40 - 100 = 40				
	$\frac{40}{400}$ x 100% = 10%				
28	- AAC 31				
- 1	3 x \$3.80 = \$11.40				
	\$3.80 ÷ 2 = \$1.90				
	\$11.40 + \$1.90 = \$13.30 \$20 + \$42.22 = 2.24				
	\$80 ÷ \$13.30 = 6.015 ≈ 6sets				
	6sets x 4notebook = 24				

Q9	BT : BE → 7 : 3 → 70 : 30
(a)	BT: BE \rightarrow 7: 3 \rightarrow 70: 30 70 x $\frac{80}{100}$ = 56 30 x $\frac{130}{100}$ = 39
	$30 \times \frac{130}{100} = 39$ $56 + 39 = 95$
	56 + 39 = 95 100 - 95 = 5%
	100 - 95 = 5%.
(b)	$168 \times \frac{100}{80} = 210$
Q10	Y
	W
	$\frac{10}{10} = \frac{5}{10}$
	$\overline{28} = \overline{14}$
Q11	$3u = \frac{2}{5}kg$
	$1u = \frac{2}{5} \div 3 = \frac{2}{15}kg$
	$10u = \frac{20}{15}kg = \frac{4}{3}kg$
	$Ans(a) \rightarrow 1\frac{1}{3}kg$
	Ans(a) $\rightarrow 1_{\overline{3}}$ kg
	7 × 2 kg = 14 kg
	$7 \times \frac{2}{15} \text{kg} = \frac{14}{15} \text{kg}$ Ang(b) \Rightarrow 14
Q12	Ans(b) → 14
Q12	\$330 - \$30 = \$300 \$300 - 3 = \$450
15	\$300 ÷ 2 = \$150
E+	\$50 + \$30 = \$180
	Answer (a) → \$180
	80% → \$180
	1% → \$180 ÷ 80 = \$2.25
	100% → \$225
	\$225 – \$180 = \$45 (Amount of discount)
	\$95 - \$45 = \$50 (Discont of dress)
	$\frac{50}{200} \times 100\% = 25\%$
	200 Answer (b) = 25%
Q13	15 x 4 = 60
	60 - 6.45 = 53.55
	17u = \$53.55
	1u = \$3.15
	4u =\$12.60
Q14	$\frac{3}{3} + 12 = \frac{3}{3} = \frac{1}{3}$
	$\frac{3}{5} \div 12 = \frac{3}{60} = \frac{1}{20}$
	Ans (a) $\Rightarrow \frac{1}{20}$
	$\frac{1}{20} \times 2 = \frac{1}{10}$
	1200 ÷ 5 = 240 (amount drank everyday)
	240 x 2 = 480 (twice the amount)
	1200 ÷ 480 ≈ 3days
	Ans(b) → Friday

Q15 | C : B : Total -> 5 : 3 : 8 -> 15 : 9 : 24 (a) $A:B_{s}:C\rightarrow 8:8:8$ 7u = \$5.601u = \$0.80Answer (a) → \$0.80 24 x \$0.80 = \$19.20 Answer (b) → \$19.20 Q16 $196 \div 7 = 28$ \$137.90 - \$28 = \$109.80 Assume all coins 20cents. $196 \times 2 = 392$ 392 + 28 = 40 = 20392 x 0.20 = \$78.40 \$109.80 - \$78.40 = \$31.50 $$31.50 \div $0.30 = 105 ($0.30 derive from 50cent minus 20cent)$ Answer (a) → 105 392 - 105 = 287Answer (b) → 287 Q17 A:B <> B:C (a) 1:2 <> 4:7 2:4 <> 4:7 Therefore, A : B : C 2:4:7 2u = 144cm² $1u = 72cm^2$ $7u = 504cm^2$ $4u = 288cm^2$ $\frac{3}{8}$ x 288 = 108 $(504 - 108) + (144 - 108) = 432 \text{cm}^2$