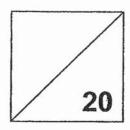


2019 PRIMARY 6 SEMESTRAL ASSESSMENT 1

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

Paper 1 comprises 2 booklets, A and B.

PAPER 1 (BOOKLET A)



INSTRUCTIONS TO CANDIDATES

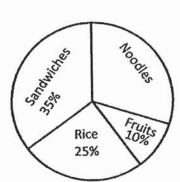
- Write your name, class and register number.
- Do not turn over this page until you are told to do so.
- Follow all instructions carefully.
- Answer all questions.
- Shade your answers in the Optical Answer Sheet (OAS) provided.
- 6. You are not allowed to use a calculator.

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).

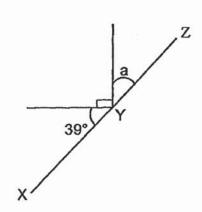
Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

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

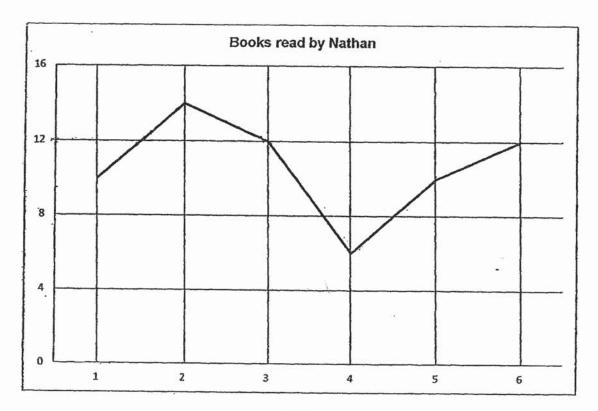


- 4. Which one of the following is the most common length of an adult's bed?
 - (1) 2 m
 - (2) 2 cm
 - (3) 20 m
 - (4) 20 cm
- A rectangular plank has a perimeter of 150 cm. Its breadth is 30 cm. Find its area.
 - (1) 5 cm²
 - (2) 1350 cm²
 - (3) 2940 cm²
 - (4) 3600 cm²
- 6. XYZ is a straight line. 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 ¢
		**
8.	What	is the value of 20 – 6 ÷ 2 x (2 + 3) ?
	(1)	5
	(2)	15
	(3)	35
	(4)	85
9.	Kelly faces	is facing the north-east direction. How should she turn so that she west?
	(1)	45° clockwise
	(2)	135° clockwise
	(3)	135° anti- clockwise
	(4)	225° anti- clockwise

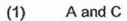
10. The graph below shows the number of books read by Nathan in 6 weeks. His target is to read a minimum of 12 books in a week. How many weeks did Nathan achieve this target?



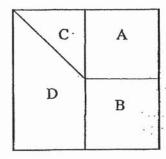
Week

- (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
- 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 ⁵/₈ of the figure?

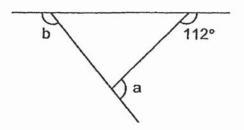


- (2) B and C
- (3) C and D
- (4) A and D



- 13. 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

- 14. 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, ∠a + ∠b = ____



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

End of Booklet A
Go on to Booklet B

· ·

*

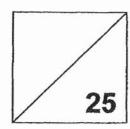


2019 PRIMARY 6 SEMESTRAL ASSESSMENT 1

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

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.

Ques For q	tions 16 to 20 carry 1 mark each. Write your answers uestions which require units, give your answers in the	in the spaces provided. e units stated. (5 marks)				
16.	Round the product of 5.786 and 100 to the nearest whole number.					
	#					
	si .	Ans:				
17.	The perimeter of a square is 1 m. Find its area.					
	*	-				
	•					
	Terror or B T					
		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.

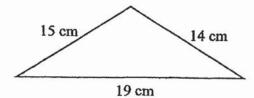
Ans: _____

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

Ans:

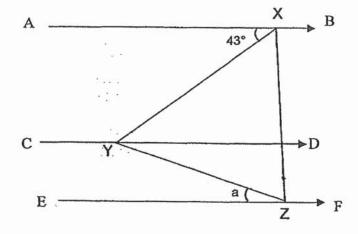
provid	Questions 21 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)		
21.	Write down all the common factors of 12 and 42.		
	-93:		
	Ans:		
22.	After spending $\frac{1}{5}$ of her money on a handbag and $\frac{3}{5}$ of her remaining money on a dress, Joanne has \$80 left. How much money did Joanne have at first?		
	Ans: \$		
23.	Jennifer baked 120 tarts. For every 15 tarts, Jennifer used 3 eggs. How many eggs did she use altogether?		
	-		
	Ans:		

24. 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.



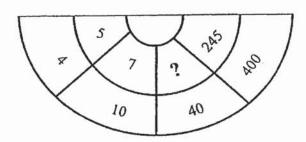
Ans: ___ cm

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



Ans: ____

26. What is the missing number?



Ans: ___ _____

27. 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: _____

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

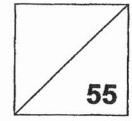
End of Paper 1



2019 PRIMARY 6 SEMESTRAL ASSESSMENT 1

Name :		()	Date: 15 May 2019
Class : Primary 6 ()			Time: 10.30 a.m - 12.00 noon
Parent's Signature : _	· 	****		

MATHEMATICS PAPER 2



INSTRUCTIONS TO CANDIDATE

- 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)

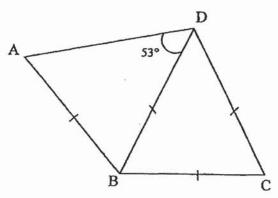
1. A marking is drawn every $\frac{1}{10}$ km in a straight foot path that measures $\frac{4}{5}$ km long. How many markings are there on the foot path, including the one at the start?

Ans: ____

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

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

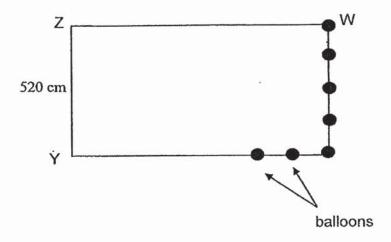


Ans: ____ •

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?

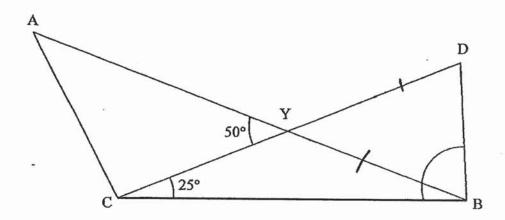


Ans : _____cm

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.

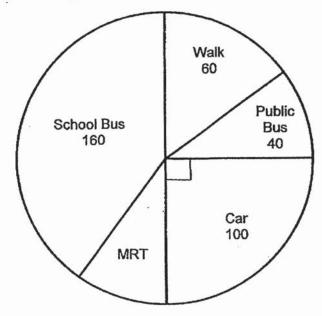
(45 marks)

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: ___ [3]

8.	The price of one notebook is \$3.80. When a customer buys 3 such notebooks, he can buy one more notebook at half the price. What is the greatest number of notebooks that a customer can buy with \$80?
¥	
	Ans:[3]
9.	In January, the ratio of the number of butterflies to the number of bees in a garden was 7:3. In February, the butterfly population decreased by 20% while the bee population increased by 30%. a) What was the percentage change in the combined butterfly and bee population? b) If there were 168 butterflies left in February, what was the butterfly population in January?
	Ans: (a)[2]
	(b)[1]

10.	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]
Ans	(a)	 [2]

12.	Jessica bought a dress and a handbag at a discount. She spent a total of \$330 on
	these 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?

Ans: (a)	[1]
(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 $\frac{3}{2}$ 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)	[3

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.

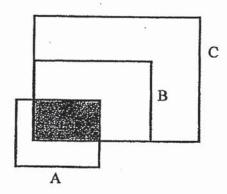
- a) How much did Amanda pay Caren?b) How much did the birthday cake cost?

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

- 16. Isabellla saved 2 coins in her new piggy bank each day. Each coin was either a 20¢ or a 50¢ coin. Her father also helped by putting in a \$1 coin in her piggy bank every 7 days. The total amount of money in the piggy bank after 196 days was \$137.90.
 - a) How many coins were there in the piggy bank altogether?
 - b) How many of the coins were 20¢ coins?

Ans:	(a)	AGASS - T	[2]
Allo.	(~/		

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]

SCHOOL: TAO NAN PRIMARY SCHOOL

LEVEL: PRIMARY 6

SUBJECT: MATH

TERM : 201 9 SA1

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
4	4	4	1	4

PAPER 1 BOOKLET B

Q16)	5.786 x 100 = 578.6 ≈ 579
Q17)	$1m \div 4 = \frac{1}{4}$
	$\frac{1}{4}m \times \frac{1}{4}m = \frac{1}{16}m^2$
Q18)	10 + 18 + 3 = 31
Q19)	8m - 3 - m + 8 = 8m - m + 8 - 3
	7m + 8 – 3
	7m + 5
Q20)	$0.5\% = \frac{5}{1000} = \frac{1}{200}$
Q21)	1, 2, 3, 6
Q22)	$1 - \frac{3}{5} = \frac{2}{5}$
	$\frac{80}{2} \times 5 = \200
	$\frac{\$200}{4} \times 5 = \250
Q23)	120 ÷ 5 = 8
	8 x 3 = 24
Q24)	15cm + 14cm + 19cm = 48cm
	48cm ÷ 2 = 24cm
	8cm X 2 = 16cm

	24cm - 16cm = 8cm
	8cm ÷ 2 = 4cm
Q25)	180° – 77° = 103°
	103° + 60° = 163°
	180° – 163° = 17°
Q26)	7 x 5 = 35
Q27)	$\frac{8}{1} \div \frac{3}{4} = \frac{8}{1} \times \frac{4}{3} = \frac{32}{3}$
	$=10\frac{2}{3}$
	$\frac{3}{4} \times \frac{10}{1} = \frac{15}{2} = 7\frac{1}{2}$ Ans : $\frac{1}{2}$
Q28)	\$17.20 - \$8.20 = \$9
	10 – 4 = 6
	\$9 ÷ 6 = \$1.50
	$$1.50 \times 4 = 6
	\$8.20 - \$6 = \$2.20
Q29)	$\frac{3}{5} = \frac{6}{10}$
	$1 \div 2 = \frac{5}{10}$
	$332 \text{cm}^3 = 1 \text{ unit}$
	10 units = 3320cm^3
	$3320 \text{cm}^3 = 3.321$
Q30)	$\frac{45}{100} \times 80\% = 36\%$
	45% - 36% = 9%
	9% of salary = \$180
	100% of salary = $\frac{$180}{9} \times 100$
	= \$2000

PAPER 2

Q1)
$$\frac{4}{5} \cdot \frac{1}{10} = 8$$

 $8 + 1 = 9$
Q2) 14 years = 2 units
3 units = 21 years
21 - 1 = 20 years old

Q3)	180° ÷ 3 = 60°	
(43)	53° x 2 = 106°	
	∠ADB = 180° – 106° = 74°	
1	$\angle ABC = 74^{\circ} + 60^{\circ} = 134^{\circ}$	
	ZABC - 74 + 60 - 134	
Q4)	2m + 6 + m + 6	
Q-1)	= 3m + 12 = 48	
	3m = 36	
	m = 12	
Q5)	5 – 1 = 4	
	520 ÷ 4 = 130	
	9 x 130cm = 1170 cm	
O.C.	F00 0 4000	
Q6)	50° x 2 = 100°	
	$\angle y = 360^{\circ} - 100^{\circ} = 130^{\circ}$	
	2	
	\angle ABC = 180° - 130° - 25° = 25°	
	ZABC - 180 - 130 - 25 - 25	
	$\angle ABD = 180^{\circ} - 50^{\circ} = 65$	
	2	
	2	
	65° + 25° = 90°	
Q7)	400 - 160 - 60 - 40 - 100 = 40	****
	$\frac{40}{} = \frac{1}{}$	
	400 10	
	= 10%	
Q8)	$$3.80 \div 2 = 1.90	
	$3.80 \times 3 = 11.40$	
	\$11.40 + \$1.90 = \$13.30	
	\$80 ÷ \$13.30 ≈ 6	
	$$13.30 \times 6 = 79.80	
	6 x 4 = 24	
Q9)	a)130% of 3 units = 3.9 units	
	5.6 units + 3.9 units = 9.5 units	
	$\frac{9.5}{10} = 95\%$	
	$\frac{9.5}{10}$ = 95%	
	9.5 10 = 95% 100% - 95% = 5%	
	$\frac{9.5}{10}$ = 95%	
	9.5 10 = 95% 100% - 95% = 5%	
040	9.5 10 = 95% 100% - 95% = 5%	

	$\frac{10}{28} = \frac{5}{14}$
	28 14
Q11)	7 _ 3
	a)1 - $\frac{7}{10} = \frac{3}{10}$
	$\frac{3}{10}$ of a packet = $\frac{2}{5}$ kg
	10 5 5
	1 .
	1 of a packet = $1\frac{1}{3}$ kg
	b) $1\frac{1}{3}$ kg $-\frac{2}{5}$ kg = $\frac{14}{15}$ kg
	3 5 5 15 5
	14 1
	$\frac{14}{15}$ kg ÷ $\frac{1}{15}$ kg = 14
Q12)	a)\$330 - \$30 = \$300
	$300 \div 2 = 150$
	\$150 + \$30 = \$180
	b) $\frac{$180}{80}$ x 100 = \$225
	\$225 – \$180 = \$45
	\$95 – \$45 = \$50
	\$150 + \$50 = \$200
	$\frac{50}{200} = \frac{1}{4} = 25\%$
	$\frac{1}{200} = \frac{1}{4} = \frac{25}{4}$
2/2	
Q13)	$3 \div 2 = 1.5$
	2 x 2 = 4 4 + 3 + 1.5 = 8.5
	4 + 3 + 1.5 = 6.5 \$15 x 4 = \$60
	8.5 units + \$6.45 = \$60
	8.5 units = \$53.55
	17 parts = \$53.55
	1 part = \$3.15
	2 units = 4 parts
	\$3.15 x 4 = \$12.60
Q14)	a) $\frac{1}{20}$
	b)Friday
CAE)	a)24 unita : 2 = 9 unita
Q15)	a)24 units ÷ 3 = 8 units 15 units – 8 units = 7 units
	1 unit = \$5.60 ÷ 7 = \$0.80

	b)24 units = \$0.80 x 24 = \$1920
Q16)	a) $196 \div 7 = 28$
	28 x \$1 = \$28
	\$137.90 - \$28 = \$109.90
	196 x 2 = 392
	392 + 28 = 420
	b)Assume all are 50¢ coins = 392 x \$0.50 = \$196
	Diff in sum = \$196 - \$109.90 = \$86.10
	Diff in amount = \$0.50 - \$0.20 = \$0.30
	\$86.10 ÷ \$0.30 = 287
Q17)	14 units – 3 units = 11 units
	11 units + 1 unit = 12 units
	$36 \times 12 = 432 \text{ cm}^2$