

幼中第一頁 Q610

Part 3. Calculations (Each question 10 marks. Total 100 marks)



Part 4. Applied questions (Each question 10 marks. Total 100 marks)

(1) Match picture to the correct price $(\pi : dollars)$







(2) Using $\begin{pmatrix} 10 \\ 2 \end{pmatrix}$ to buy something,

how much money will remain?





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Part 3. Calculations (Each question 10 marks. Total 100 marks)



Part 4. Applied questions (Each question 10 marks. Total 100 marks)

(1) Calculate the distance.





. (2) Calculate the amount. (元 : dollars)





						Score / 600
	Student ID	ary	1	Set Time Allowed :	1 15 minutes	
Part	t <u>1. Multiple Choice</u> (Each question 10 marks. Total 100 marks)		_	Ø	^	(元:dollars)
() $oldsymbol{0}$ Which one is most difficult to roll ? (1)			2 3	(4)	
() $oldsymbol{arrho}$ The right hand equation is correct? (1)	corre	ect (2) incorrect	③ whate	ever $-\frac{-5}{13}$
() The long hand makes one circle. Its mean h	iow m	any mir	nutes passed?	110 2	5 3 30 4 60 minutes
() (2) $(2$	fill in	the -	o_o`?① 100	② 99	③ 110 ④ 60
() ⊖ (50)1010(5)(5)(1)(1)(1)(1)(2)(2)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)	8 3	83	④ 93 dolla	ars	
() © There are 19195, Can buy 10 dollars	eras	er hov	v many piece	s?① 1 ②	2 3 3 4 4
() \checkmark 17+1 = 8+10 , this equation is correct? (D cor	rrect	② incorrec	t 3 wh	atever
() (\mathbf{B} A+69 = 96+B , A and B which one is lo	arger	? ① #	A 2 B (3) Same	
()♥ 45-□ answer is bigger than 30. □ ma	iy be(1) 21	2 22 3	15 ④ 14	
() One end of the pencil is aligned to the r	ruler	scale (D, one end to	scale 15.	What is the
	length of this pencil? (units : cm) (1) 10	(2)	5 ③	15 (4) 14 c	m	
Part	t 2. Fill in the blanks (Each question 10 marks. Total 100 marks)	Part	<u>3.</u> Calc	ulations (Each que	stion 10 marks. 1	Fotal 100 marks)
U	In the Leap year minimum number days	0	87 –	65 =		
0	of the month is days.	2	40 +	30 + 20 = _		
Ŭ	circle, it will be o'clock.	€	There	are	numbers	that are greater
€	Every days there will be a		than 3	39 and less the	an 51. (Nor	including 39 and 51)
	Sunday.	•		() –	
4	At least tens need to be added			<u> </u>		34
	together to be greater than 71.	6	Ç	69		
9	is the two-digit number. The possible		()	6'	7 —
	maximum number of covered can be	9		94		
	Which one is a straight line? Tick 🖌		<u> </u>	3	¦ —	
					1 1 -	28
0		_				
G		A B			ARA ET	
			: 			7 8 9 10
Ma	tching the problem to the correct equation.					
€	spent 5 dollars. How much does he have left?	A		nonco hotwo	on A and	C is on
Ø	There were 6 frogs, and 5 more $6-5=1$	G	Diff	rence betwe	en R and I	$\mathbf{C} = \mathbf{C} \mathbf{C} \mathbf{M}.$
2	hopped by, how many are there?		UITE	and		CIII.
0	$eaten.$ How many are left? \bullet		+000+	unu her ivet 10 c	a	
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小一第三頁 Q610



Part 4. Applied questions (Each question 10 marks. Total 100 marks)

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The following shape is composed by how many cuboids?
 Image: Composed b

) ● 5 2 8 0 are digit cards. What is the minimum three digit numbers that you can arrange with the cards?

Dad's wallet contains 7 100 [™]_π, 14 10, and 25 10. In total, how many dollars does he have?

) Our class has 28 students. We

were divided into some groups.

Each group is 7 students. How

many groups can we divide?

: : (

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) The farm has 4 cows and 2 chickens. How many legs are there?

SSSSS VV

) 18 meters of wire. Divide equally into 3 parts. How many meters is each part?

) Class 2A queuing. 5 people are in a row. It can be arranged in five rows. How many people are in this class?

) Mom has a ribbon. $\frac{1}{3}$ ribbon to older sister. $\frac{1}{2}$ to younger sister. Whose ribbon is longer?

) Take 1 meter long ruler to measure the length of the fence. Measuring 9 times and 76 centimeters. How long is this fence? **Primary 2** Expert Level Math Challenge Questions



						Score / 600
		Prin	narv	3	Set 1	
		Student ID.	, ar y	U	Time Allowed :15 minutes	
Par	<u>t 1. </u> Mult	iple Choice (Each question 10 marks. Total 100 marks)				(元: dollars)
()0	The circumference of the equilateral	triangl	e is how	v many times the le	ength of the side?
		(1) 1 times (2) 2 times (3) 3 times (4)) 4 tim	es		
()2	Which one weighs less than 1 kg? $\textcircled{1}$ to	elevisio	on ②re	efrigerator ③ bicy	vcle ④ Cell phone
()€	On the clock face. The second-hand m	nove 5	small in [.]	tervals. Is how mu	ch time?
	-	(1) 1 second (2) 5 seconds (3) 12 sec	onds	④ 5 mi	inutes	
()4	7 in "56.7" is ① Tens place ② Ones p	olace (3) Tenth	is place ④ Hundre	dths place
()9	998 – 299 = □, □ is closest to ①	700	2 600	3 500 4 400	
()))	A=0×147, B=258×0, A and B which or	ne is lar	rger? (1) A (2) B (3) Same	(4)Can not compare
() V	$369 \div 3 = [], [] = (1) 123 (2) 372$	(3) 366	(<u>4</u>) 13	3	•• • • • •
()8	The fally " mm mm mm II " represen	ts the 7	number	(1) 12 (2) 22 (3) 12	32 (4) 17
()9	There are two numbers, A and B. A i	$s \frac{1}{10}$,	and A+1	$B = \frac{12}{10}$. What num	ber is difference
		between the two numbers? $(1)\frac{1}{10}$ (2):	$\frac{2}{10}$ 3	$\frac{1}{10}$ ④	$\frac{5}{10}$	
()0	When cubes of the same size are stad	:ked, a	nd if th	e volume is bigger,	the number of
		cubes used be $①$ more $②$ less $③$ no	ot nece	ssarily	④ cannot count	
Pa	urt? Fill	in the blanks (Each question 10 marks, Total 100 marks)	Part	3 Calcul	ntians (Each question 10 mar	ks Total 100 marks
<u> </u>	49	44 34 29		<u>J.</u> Cuituu		is. Total Too marks)
U	50	$\overline{50}$ + $\overline{50}$ + $\overline{50}$	U	12 cm +	⊦ 34 mm =	cmmm
	210 am.	² ³ ³ ³ ³ ³ ¹⁰ pm. ³ ¹⁰ pm. ³ ³ ¹⁰ pm. ³ ¹⁰ pm. ³ ¹⁰ pm.		147 + 2	258 =	
2	E-8 7 5	minutes	¦ ค	07 5		
Ū		It is passed		0.7 - 0	0.0	
	9 8	$ \stackrel{2}{\Rightarrow} \Rightarrow \left(\begin{array}{c} 10 \\ 9 \\ 8 \\ 8 \end{array} \right) \stackrel{\text{m. 2}}{\Rightarrow} = \frac{10}{3} \text{ hours} $		90 × 90	0 =	
€	7 6 5 11111	minutes	¦ 6	231 -	= 3 × 7	
<u>F</u>	ill in th	e blank (use $>$ or $<$ or=, \square is any number)		19	0,1,1,1 7 3	
4	59 3	60□4	Θ	$\frac{1}{20}$ – —	$=\frac{1}{20}+\frac{1}{20}$	
6	79□+	102 498+3□3			() _	
т	he who	le class mathematics exam arade record				
<u> </u>		ie class mariemaries exam grade record	 - 		, 10 ₁₈	$\frac{3}{10}$
				_()	<u> </u> 9
	2		:	The em	noty box is not cov	ered 🗊 is 1 cubic
	0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	į	centime	eter. How many 🗇	is made fill up
6	The m	nost students test points,		the em	pty box? (Units: ci	n)
	there	are students.	€	3,7		
	Score	less than 60 points have student	SI		4,7	
	The s	core is 100 points have student	s¦ E	5		
J	The n	umber of students with points	į			7
ወ	There	points is the same.	! !	5		
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Primary 3 Expert Level Math Challenge Questions

Part 1. Multiple Choice (Each question 10 marks. Total 50 marks)

- () $\mathbf{0}$ " $\frac{9}{10}$ " may be referred to as (1) 9.10 (2) 10.9 (3) 0.9 (4) 9
- () How heavy is the water of 1 liters? (1) 1 g (2) 10 g (3) 100 g (4) 1000 g
- () \bullet A × B=408, B is 12, A-B = 1 21 2 22 3 23 4 24
- () Dividend and Divisor are divided by same numbers(≠0) at the same time. The quotient will be ① unchanged ② increase ③ decrease ④ not necessarily.
- () The 5 apples are 1.25 kg. The 4 bananas are 480 g. One apple and one banana differ by
 1 770 g
 2 125 g
 3 130 g
 4 Can not compare



						Score / 600
		Student ID	Primary	/ 4	Set 1	
					Time Allowed :15 minutes	
Part	<u>t 1. Mult</u>	ple Choice (Each question 10 marks. Total 100 marks				(元:dollars)
()0	Which of the gray parts is as lar	rge as 🛄	L)? (1) E		4
()2	The right triangle has the maximu	im number o	of right	angle?(1) 1 (2) 2 (3) 3	4not necessarily
() E	Which one is the area unit?①cm	2cm/sec	(3) squa	are centimeters ④ c	ubic centimeter
(Between 8:00 am. to 12:00 am, h	ow many ti	me has	passed? (1) 1 (2) 2 (3)	3 4 4 hours
()9	Take the approximate number to	ten thous	and digi	t, the estimate shoul	d be which
,	\ A	nearest placing? (1)ten thousands	s digit (2)th	nousand	s digit (3)hundreds d	igit (4)tens digit
(10 find a multiple of a certain nu	Imber, wha	t is the	Dest way to calculate	2.4
(\bigcirc a a a trian \checkmark subtraction \bigcirc h	nuitipiicatio	on (4)d כ (ג) גר	IVISION	
l ($u \wedge o = 400$, men $a = 0.00$ (2) The Broken-line or only the low	100 (3) 37 Non the line	c (4) 4(2 haiah+	the value represent	ed is
C	<u>ت</u>	(1) more (2) less (3) fixed (1)	not necesso	arilv	, me vulue represent	
()e	What is the smallest number on	the riaht?	$(1) 8 \frac{18}{100}$	$(2) 8\frac{8}{12}$ $(3) 8.88$ (4)	8.08
、 ()0	A number (\neq 0) is divided by 1000	0, what is t	he quot	ient of this number?	
•	-	$(1)\frac{1}{1000}$ $(2)\frac{1}{100}$ (3) 100 times (4)) 1000 time	25		
_			> ' □			
Part	<u>t 2. </u> Fill i —	n the blanks		<u>rt 3. </u> Calcu	lations (Each question 10 marks.	Total 100 marks)
U	To cu	t a rhombus shape along		5 trill	ion 500 billion – 3 tr	illion 900 billion
	two d	iagonal, How many right angle		=	trillion	billion
	triang	les are there? right ang	le :	1 hour	23 coconda	utes 15 second
3	Angle	sum of the quadrilateral is how n	nany i 🛥	THOUL	s LJ SELUTIUS - J MIR	IUTES TO SECONDS
~	times	angle sum of the triangle?	times	=	minutes	_seconds
6	$\frac{1}{A} > \frac{1}{B}$	$r > \frac{1}{C}$, A, B, C are three numbers,	€	$5\frac{11}{17} +$	$ = 6\frac{19}{34} $	
-	the sr	nallest is		9876 -	÷ 12=	
4	It tak	to say a we	ord. i	54 32	× 0 25 =	
0	A divi	ded by B, the quotient is 45. If A		122 1	Λ54 · (7±0±0) -	
-	increa	used 3 times. B is reduced by 3 t	imes, i	123 +	$400 \div (7 \pm 8 \pm 9) = _$	
	the qu	notient becomes		(12+ <i>a</i>)÷6 + 789 = 848.5,	a=
 N	Natch +	he shape with their correct definit	- i ions i	The pie	ce of rectangular lan	d. There is a
- 14				crossro	ad with a 10 m width	in the middle
6	Squ	uare • • 4 right angles		(Unit:m	i) <u>140</u>	
Γ			⊢ i		AB	`\;
0	Recta	ngle 🕒 🔍 4 sides equal lengt	h j ¦			9 90
		4 sides equal lengt	h, :			,í
₿	/Trape	ezoid • and 4 right angles	s		50	_
		2 pairs of opposite		The pe	erimeter of the D zoi	ne ism.
P 4		sides are parallel	_ ! 9	The ar	rea of B zone is	m².
•	Rhom	bus Only 1 pairs of opposit	te 🗍	The to	otal road area is	 m ²
	\sim	Isides are parallel	! •			
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Part 4. Applied questions (Each question 10 marks. Total 100 marks)

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) Find the perimeter of the parallelogram? (Unit:cm)

seconds a day?

) 24 hours a day, 1 hour 60 minutes , 1 minute 60 seconds, how many

5

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) A rectangle of paper is 30 cm long and 25 cm wide. There are 8 pieces of the same paper. How many square centimeters are the total area?

- Mary's home water supply is going to be cut off from 11:30 pm to 6:30 am. How many hours were without water?
-) Children's Park had 27918 visitors in January. There were 35461 visitors in February. There were 11682 visitors in March. What is the total number of visitors this season? (Find the approximate number in the thousands place)

-) A number is subtracted by $\frac{1}{2}$ and then subtracted $\frac{1}{3}$. The result is $\frac{1}{4}$. Find this number?
- Y The drink store has a total revenue of X dollars today. A total of 64 cups drinks were sold. A cup sells 35 dollars. How much is X?



-) The following figure is a bar chart. Which Class have the lowest people? How many people in this Class? Class A Class B Class C Class C Class D Class E 30 25 20 35 Students number(people)) Mary's home water supply is going to be cut off. Mom is preparing 330 liters of water to store. and divided equally it into 4 large buckets. How many liters of water per large bucket?) A car is travel 36.5 kilometers
-) A car is travel 36.5 kilometers per hour, B car travels 41.7 kilometers per hour, both leaving at the same time, the same location and the same direction, 2 hours later, how many km apart are the two cars?





					Score / 600
		Prim	ary 5	Set 1	
		Student ID.	J	Time Allowed :15 minutes	
Par	<u>t 1. Mult</u>	iple Choice (Each question 10 marks. Total 100 marks)		1	(元:dollars)
()0	"%" is a symbol of percentage, which m	eans that (11 (2) 100 (3) $\frac{1}{10}$ (4)	$)\frac{1}{100}$
()2	The international symbol of the "hecta	re" is 1 a	$2 ha 3 m^2 4 km^2$	100
()€	The trapezoid's two diagonal lines will	be		
		(1) vertical (2) parallel (3) not necessa	rily the sam	e length ④ must be	the same length
()4	The area of the triangle is			
	•	1) base×height÷2 22 (base+height)÷	-2 ③ base	×height÷3 ④base×	(height
()6	How many are the undersurface of the	cone? ①1	2 2 3 3 4 not not	ecessarily
()9	The same time, The distance is relative	ely long, is r	unning	
,		(1) slower (2) faster (3) as fast (4) ca	in not compo	are	1. 1
()	The multiplier is less than 1, the production of the multiplication of the multiplicatie	CT WIII De (I) is equal to the multi	plicana
(2 is greater than the multiplicand 3	$r 25 \bigcirc 0$	$\sqrt{20}$ $\sqrt{3}$ $\sqrt{23}$ $\sqrt{3}$ $\sqrt{23}$	A not necessarily
()O	Billy's subjects of final exam results s	uitable to d	rawing with what kind	of chart?
· ·)0	(1) Bar chart (2) Line chart (3) Both co	an be		
()0	12 + a = 34, $a = 134 + 12$ (2) $34 - 12$	3 34×12	④ 34÷12	
Pa	urt 2. Fill	in the blanks (Each question 10 marks Total 100 marks)	Part 3, Calc	ulations (Each question 10 marks	Total 100 marks
O	99 – a	r < 50, the minimum value of a should		67	
	be	,	1 .23†0	onnes - 45 <u>700</u> kg=	kg
2		is how many times?	¦ ❷ 8 <u>9</u> 10 m	inutes+1.05minutes=	seconds
		Times. (gray part)	6 1 ⁵ 1	. 71	
€	660 ×	× 87 ÷ 6 = × 87		/s-/nours Jominutes	
4	Eight	equal parts of a perigon. Each central	: =	hours	minutes
	angle	is degrees.			
<u>F</u>	Find th	<u>e degree of each angle.</u>	¦ ❹ 12 7 ×	5 =	
₿					
	/	A B	!	4.321 =	
	/57	° 57 (90 110)	6914	∴ 53 = (Rc	ound it off to find
	∠ Δ _				econd decimal place)
2	<u> </u>		¦ 🗹 87.65	$4 \div \frac{3}{4} = $	
<u>M</u>	<u>atch Tl</u>	he shaped perspective view and The name		4 - 49	
Ð	\bigwedge	Hevaconal nnicm	:	4 = οδ, α=	
			! Find th	e area of each figure	(Unit:cm)
e	~	Pentagonal numamid	i i i O rhombus	: : : : : : : :	8 360
J					
					\backslash /
e (15		
	Ń			cm ²	3.631
U		- I mangular prism	i ——	Cm	CIII
	-				小五第一頁 Q610

Part 4. Applied questions (Each question 10 marks. Total 100 marks)) If $\frac{A}{7} \times \frac{B}{7} = 1$, then A×B=?) As shown. There is a trapezoidal. ((Find the area of the gray part? (Unit:m) 8 12 Side length of the cube is 13.579 () After folding a piece of paper. (cm, What is the sum of all its side Cut along the dotted line. Find lengths? the triangle area after expansion? cube 3 cm 4 cm) Strips of wood are made into a (() John goes online for 14 hours 56 regular pentagonal prism-shaped minutes per week, how much time lanterns. How many centimeters on average does he spend online of wood are used? every day? 25 15 cm) L1 is parallel to L2. The areas of () The bank deposit rate is 1.68% (the triangles A, B, C, and D are all per annum. Dad deposit 500,000 the same. Which triangle's base dollars. How much interest can he is the longest? get after one year expires? - *L* | Ŋ · L 2) Dad bought 3 apples and 8 () A truck can load 1.5 tonnes of (oranges. A total of 420 dollars cabbage which can sell for 24 was paid. One orange is sold for dollars per 0.6 kg. What is the 15 dollars. How many dollars does selling price of one truck of one apple sell? cabbage?



			S	Score / 600
	Student ID	ary 6	Set 1 Time Allowed :15 minutes	
Par	t <u>1. Multiple Choice</u> (Each question 10 marks. Total 100 marks)		$(\pi = 3.14)$ ($\overline{\pi}$: dollars)	the tro
(() As shown, the inverse proportion relation (A, B) and (B, A) are represented position	onship is (1 ons by (1)) A ② B ③ C ④ D ◀ the same	
((2) not the same (3) sometimes the sam (3) The area of the base of the right circulated in the same of the s	e (4) some lar cylinde	times not the same	
l	height becomes 2 times. The volume wil	I become (1) 1 (2) 2 (3) 3 (4) 4 time	25
() How many intervals are there, between	the 40th	power pole to the 80th?	
,	(1) 41 intervals (2) 42 intervals (3) 39 i	intervals (4) 40 intervals	
() 15 consecutive odd numbers, their avera	ige is just	equal to the 15th number	
() The same distance. If the running time	is shorter	The speed will be	
((1) faster (2) slower (3) the same (4) of	can not con	ipare	
() After rolling a dice is how many positive	e odd outco	omes? (1) 1 (2) 2 (3) 3 (4)	6 outcomes
() (A+B) ÷ C = (1) A + $\frac{B}{C}$ (2) $\frac{A}{C}$ + $\frac{B}{C}$ (3) $\frac{A}{B}$ + $\frac{B}{C}$	$\frac{B}{C}$ (4) $\frac{A}{C}$ ÷ $\frac{B}{C}$		
() (2) a \div 3×24=58, a= (1) $6\frac{3}{4}$ (2) $7\frac{1}{2}$ (3) $7\frac{1}{2}$	$(4) 7\frac{1}{4}$		
() As known large numbers + small number	rs = sum. L	arge numbers – small num	bers =
	difference. So large numbers = ① (sum	-differen	ce)÷2 ② (sum-differen	ce)×2
	3 (sum+difference) $\div 2$ 4 (sum+diff	erence)×2		
Pa	urt 2. Fill in the blanks (Each question 10 marks. Total 100 marks)	Part 3. Cal	culations (Each question 10 marks. Total 1	00 marks)
0	The shape of the base of the rhombus		$\frac{2}{5}$ times is $\frac{5}{5}$ r is	
-	prism is a		$_{3}$ times is $_{4}$, x is	<u> </u> .
2	Speed 5.4 km per hour = m per second	¦ ❷ 7.4>	< 2.5 ÷ 3.7 ÷ 0.5 =	_
€	82.41.56.37 Median =	$\frac{1}{2}$ 9 $\frac{5}{6}$ ÷	$3\frac{1}{4} - 2\frac{2}{3} \times \frac{7}{8} = $	
4	The 101st squares are (fill gray or white)		$\frac{2}{2} + 3\frac{1}{2} = 5\frac{7}{2}$ $a = $	
•			9 ^{, 0} , 0 ^{, 0} , <u> </u>	
		Find t	he volume of each figure ()	<u>Jnit:cm)</u> 1
9	9, 16, 23, 30, 37,, According to	; 5 .9		1 cylinder 4
-	the rule, the 50th number is			16
9	25 , 64 , 59 , 25 , 39 , 54 , 25 , 42 ,	10	24	
	Mode =			3
	<u>Martin record throw of a dice 100 times</u>	i 5.0	o cm°	cm*
Г	pips 1 2 3 4 5 6	<u>Mom</u>	and <i>Mary</i> Age Relationship	Table
	no. of occurrences 17 15 18 15 19 16	Mom 6	rears old) 24 25 26 27 4	18 ~ 50
	probability $\left \frac{17}{100}\right \sim \left \sim \right \sim \left \sim \right \sim$	Mary 6	rears old) 0 1 2 ~ … 2	24 25 26
7)	The probability of 3 pips is	i 🔽 Mom	and Mary age difference	of
8	The probability that the number of nine is	year	s old.	
J	less than or equal to 2 is 9	🖯 😇 Afte	r 30 years, the age differen	ce between
Ø	The probability that the number of ning is	! the 1	two will be years	old.
3	more than on equal to A is 9	Whe	n Mom is years of)Id.
	The probability of 7 ping is	: ///om	s age is three times as M	ury s. Marvic
U	The probability of 7 pips is		minum suye is 4 times as	iviury S.
			<i>y</i> is years old.	







	Score / 200
Student ID Kindergarten (K3) Set 2 Time Allowed : 3 minutes	
Part 1. Multiple Choice (Each question 10 marks. Total 50 marks)	(元:dollars)
$() \bullet + () = \bullet + () = \bullet + () = (1) \bullet (2) \bullet (3) \bullet (4) $	
() $2^{\frac{10}{2}}$ (10^{10}) (10^{10}) (10^{5}) (5^{5}) (10^{10}) $($	(4) 57 dollars.
$() \textcircled{\ } 22 \rightarrow 20 \rightarrow \square \rightarrow 6, \square = (1) 9 (2) 8 (3) 7 (4)$) 15
() 4 $ 2 - 8 = 9$, $ = (1) + (2) - (3) = (4) \times$	
()SThere are many legs in total?(1)28 (2)20	(3) 30 (4) 24 legs
Part 2. Fill in the blanks (Each question 10 marks. Total 50 marks)	
$\mathbf{U} \ 9 \rightarrow 24 \rightarrow 29 \rightarrow \qquad \rightarrow 39$	
I2、5、II、28, The odd numbers are and	·
■ 16、7、10、25, The even numbers are and	
Which one is 🛛 ? Tick 🖌 in ()	
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \end{array} \\ \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	() ()
Part 3. Calculations (Each question 10 marks. Total 50 marks)	
$ \begin{array}{c} \end{array} $	
Part 4. Applied Questions (Each question 10 marks. Total 50 marks)	
There are 12 $\overset{\checkmark}{\swarrow}$ and 18 $\overset{\vee}{\swarrow}$, how many planes are there in all?	planes
There are 21 25, then 9 25 rode away, how many are left?	
8 Were eaten, 13 were left, The original amount was	

					Score / 200
	Student ID Prim	ary 1		Set 2	
		-	Ti	me Allowed : 3 minutes	
Par	t 1. Multiple Choice (Each question 10 marks. Total 50 marks)				(元:dollars)
() 🛈 💞 🕬 🛹 🏍 🎜 🎜 🖓 🕉 , how mar	iy cars ar	e there	2? (1) 5 (2) 6 (3)	8 (4)9 cars.
() and , The total number of finge	ers stret	ched ou	ıt? (1)5 (2)6 (3)8	8 (4)9 fingers.
() 2 years ago, David was 4 years old. Nov	v David is	(1) 5	(2) 6 (3) 8 (4) 9) years old
() 3 (1) and 8 (1) , A total of (1) 48 (2)	38 (3) 8	33 (4)	803 dollars.	
() $lacebox$ Which one is easiest to roll? (1) $igtriangledown$	203			
Par	t 2. Fill in the blanks (Each question 10 marks. Total 50 marks)	<i>Part 4.</i>	Applied	Questions (Each question	n 10 marks. Total 50 marks
U	67 is ones and 6 tens.	· ()U	How many crabs?	
	There are hours in half a day.	! !			
9	small interval is represents that it took	 - 		A A A A A A A A A A A A A A A A A A A	
	minutes.	! ! ()	Which one is mor	e than 8
4	At 11:30, the minute hand is moved a half	1	-	o'clock?	
	turn and it is o'clock minutes.	 - 			2 10 2
₿	One hundred eighty-five at most	1		19 3 8 4 7 5 7 5 7 5	3 4 4 8 7 5 4
	tens.	 - 		A B	C
Par	t 3. Calculations (Each question 10 marks. Total 50 marks)	! ! ! () E	<i>Jason</i> is ranked 1	9th. How many
		 	-	people are in fror	nt of him?
		 - 		How many peo	ople? 19th
		 - 			D
		 - 			Jason
		! ! (<i>Tommv</i> is ranked	7th. There are
			,-	8 people behind h	im. How many
0	The maximum amount is(fill code),	 - 		people in the que	ie;
	There are	 - 			
2	The minimum amount is(fill code),	 - 			
	There are	! ! () B	Red shoes 2 nairs	: white chood ?
€	There are Â.			pairs. How many s	shoes are
4	There areE.	:		there?	
B	$\langle \hat{C} \rangle_{+} B = D =$	 			
J		: !			

Student ID. Primary 2 Set 2 Time Allowed : 3 minutes	
Part 1. Multiple Choice (Each question 10 marks. Total 50 marks)	(元:dollars)
()) $\mathbf{\Phi} = 89 - 78$ B=99 - 88 which one is larger? (1) A (2) B (3) both same (4)	1) not necessarily
() The shorthand moves 5 small intervals is more than the longhand moves	five 5-minute
intervals (1) 35 (2) 55 (3) 30 (1) 0 minutes	
$() \bigcirc (2) \bigcirc (2) \bigcirc (3) \bigcirc (4) \bigcirc (1) \bigcirc (2) \bigcirc (2) \bigcirc (3) \bigcirc (4) \bigcirc (4) \bigcirc (1) \bigcirc (2) $	1) O might angled
$() \bigcirc can a triangle have at least now many right angles? (1) 1 (2) 2 (3) 3 (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5$	4) O right angles.
() \bigcirc 60 π can be exchanged for how many \bigcirc ? (1) 11 (2) 12 (3) 13 (4)	14 🙂
() The day before 1st August was	
(1) 29th July (2) 30th July (3) 31st July (4) 31st June	
Part 2. Fill in the blanks (Each question 10 marks Total 50 marks) Part 4. Applied Ouestions (Each quest	tion 10 marks Total 50 marks
1 Three "6"s plus six "7"s are	y morning to get
A total of <u>5-minute intervals in a</u> <u>up. After 25 minute</u>	nutes go to school
It takes 20 min	utes arrive at
school. When is	he arrive?
winimum 2 disit number minus me	
minimum 2-digit number is	
$ It's minutes to \\ Box A can control $	in 10 books. The
3 o'clock capacity of the	box B is 2 times
of the A. C is 3	times of B. Box C
can contain how	many books?
6 o'clock.	
Part 3. Calculations (Each question 10 marks. Total 50 marks)	
() Callie has 9 book and now 65	and 3 C.Buy a
Image: Image	he left?
E Grand Grand Dad Mom Older Older Younger i Ander Money is s	
3 72 68 46 41 15 11 7	
• Mom and Dad a total of years old. () There are 16 bo	ys in class 2A.
Older brother, older sister, and younger	girls 3 people.
brother a total of vears old How many people	e are in the whole
Grandpa and Grandma a total of	
vears older than Dad and Mom	
Grandna's age is just the sum of the ages $()$ () \bigcirc There are 36 pe	eople on the bus.
of Get off 24 peop	ole, and 18 people
got on. Now, how	w many people on
• 5 years later. Dag and Mom a total of the bus?	
years old.	
	小一同八加金 ~~~ 〕

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					Score / 200
	Student ID Prim	ary 3	, Ti	Set 2 me Allowed : 3 minutes	
Par	t 1. Multiple Choice (Each question 10 marks. Total 50 marks)				(元:dollars)
() $oldsymbol{0}$ Counting from the Number Line to the	right. Th	ne numb	ers will	
	(1) increasing (2) decreasing (3) not 1	necessar	ily (4)	all of the above.	
() On the clock face. 3 o'clock. The hour o	and minu	te hanc	ls form an angle of	:
	(1) 0 degrees (2) 60 degrees (3) 90 c	degrees	(4) 180) degrees.	
() \bullet $A = \frac{5}{6}$, $B = \frac{6}{5}$, Which one is larger? (1) A	(2)B ((3) both	n same (4) cannot	compare.
() What is the difference between "2+2"	and "2×	:2"?		
	(1) more than 8 (2) more than 2 (3)	more the	an 4 (4	4) 0	
()🕒 The hour hand moves from 6 to 10. The	e minute	hand wi	11 make	
	(1) 6 revolutions (2) 5 revolutions (3)	3 revolu	utions	(4) 4 revolutions.	
Par	<u>t 2.</u> Fill in the blanks (Each question 10 marks. Total 50 marks)	<u>Part 4.</u>	<u>Applied</u>	Questions (Each questio	n 10 marks. Total 50 marks)
U	$7 d\ell + 3 d\ell = \ \ell$				500 -10
2	Allen said: "My tall is 40 mm higher than	i		5 and 3	Loov <i>i</i> l. The
	118 cm.", He is cm tall.			remaining money	can change now
€	There are same two numbers($ eq$ 0). Divided			many 100 z ?	
	by each other. The quotient must is				
4	$100 1000$ $\overline{1}$ 8 100 $\overline{1}$ and 1 (10) A total of	! : !			
U		! !)2	0971	are digit cards.
A		i ×	,-	What is the minin	num 4-digit
Θ	The maximum 4-digit number plus the	i		number that you	can arrange
	minimum 4-digit number is			with the cards?	-
Par	t 3. Calculations (Each question 10 marks. Total 50 marks)				
Т	The radius of each circle is 5 cm.	 _) A	T	
ก		; ()5	The hotel has 8 d	lozen towels.
U	$(\mathcal{A}) \qquad (\mathcal{A}) $	 		How many towers	are there?
		!			
	$(B' \land C) (B' \land C)$	ļ			
Т	he perimeter of the The perimeter of the	; ()4	How many days ar	re there from
tr	riangle formed quadrilateral formed	1	-	Christmas to New	/ Year's Day?
b	y A, B, and C is by A, B, C, and D is	 			
-	cm.	1			
~	· · · · · · · · · · · · · · · · · · ·	:	,A		
6	248 – = 101	; (;)Ð	What is the diffe	erence between
	218 ÷ = 72 2	į		the minimum ever	number that
•		1		between 5800 an	d 6400?
₿	$\frac{3}{13} + \frac{4}{13} + \frac{5}{13} = $			(Not including 58	00 and 6400)
	10 10 10	:			

			Score / 200
Student ID Prim	ary 4	Set 2 Time Allowed : 3 minutes	
Part 1. Multiple Choice (Each question 10 marks. Total 50 marks)			(元:dollars)
() The remainder of "1 $-4 \div 5=$ " may be ((1) 0, 4 (2) (0 (3) 4, 5 (4) 4	
() The side length of the cube increase by	y 3 times. Th	ne cube volume will inc	crease to
(1) 9 times (2) 81 times (3) 27 times	(4) unchang	ged.	
() Θ 60-100÷A×2=40, then A= (1) 10 (2) 2	20 ③ 25 ④) 15	
() You can draw an infinite radius inside a	circle. So he	ow many diameter can	you have
drawn? (1) infinite (2) 2 (3) 8 (4) 4	diameters.		
() 7749 ÷ 77, quotient is 100, then remain	nder is (1) 16	② 28 ③ 49 ④ 77	,
Part 2. Fill in the blanks (Each question 10 marks. Total 50 marks)	Part 4. App	olied Questions (Each questic	on 10 marks. Total 50 marks)
What is the degree of each angle?	· () B is twice as muc	h as A.
	 	How many degree	es is C?
60° 45°			AB
	:		DCC
	(፼ 8 3 0 9	2 , are digit
	 - 	cards. What is th	le number
		closest to 30000	cards?
	1		
	- - -	•	
	! (!) Find the volume.	
The leap year is weeks and	 - 	(unit: cm)	
days.			18
G It is now . Then after 25 minutes,		-	18
it was 3:10.	() Earth distance fr	rom the sun is
	 	about 150 million	Km. The speed
Part 3. Calculations (Each question 10 marks. Total 50 marks)		second. How long	does it take for
8 7 11 59		light from the su	n to reach
$\mathbf{U} \frac{37}{90} + \frac{31}{90} - \frac{35}{90} = \underline{\qquad}$		Earth?	
2 12 + 14 + 16 + 18 + 20 =	 - 		
	· · · () <i>David</i> saves 80 de	ollars a day.
€ 135 × 75 = 4□5 × 25, □ =	· · · · · · · · · · · · · · · · · · ·	<i>John</i> saves 60 do	, Ilars a day.
		After a few days	, the savings
	1	between the two	will be a
\mathbf{G} 72 · 2 21 · 2 -	 - 	utterence of 1,0	
	!		



					Score / 200
	Student ID Prim	ary 6	Т	Set 2 me Allowed : 3 minutes	
Par	rt 1. Multiple Choice (Each question 10 marks. Total 50 marks)				(元:dollars)
() 1 $\frac{1}{x} + \frac{1}{2x} + \frac{1}{3x} = \frac{11}{30}$, $x = (1) \frac{1}{30}$ (2) $\frac{5}{6}$ (3))3 (4)5			
() 18 kg: 20 cm, the ratio is (1) 9 : 10 (2)	20:18	(3) 10	:9 (4) cannot co	mpare.
() The speed ratio between Car A and Car	' B is 2:3.	Car A	can be reached in	an hour.
	How long does it take for Car B? (1) 40	(2) 60	(3) 75	5 (4)90 minutes.	
() $A \div \frac{1}{4} = B \div \frac{1}{3}$, Both A and B are greater	than 0. T	⁻ hen tl	ne relationship bet	ween A and B is
	(1) A is larger (2) B is larger (3) both	n same (4	1) not	necessarily.	
() In the number of 9876543210, the value of 9876543210, the value of t	ue of "7"	is grea	ater than the value	of "4" by
	(1) 6997000 (2) 69930000 (3) 6996	0000 (4)) 4		
Par	rt 2. Fill in the blanks (Each question 10 marks. Total 50 marks)	Part 4. 4	Applied	Questions (Each questio	n 10 marks. Total 50 marks)
0	The decagonal pyramid and decagonal prism	()0	As shown. Find th	ie total
	have a total of vertices.			side length of the	
0	As known $12.3 \times 45 = 553.5$, then	 -		hexagonal pyrami	d?
	1.23 × 4.5 =			(Unit:cm)	
€	Circle A and Circle B the diameter ratio is				5
	3:4. The area ratio is	()2	Cut a tree into a	¹ / ₄ cylinder. How
4	The side surface of the right cylinder is a	 		many square meter	ers is its
	square, and height = π . The right cylinder			surface area?	
	surface area is square units. (π =3)			<pre></pre>	90cm
₿	There is a fan-shaped land area of 169.56				2.5m
	cm ² . The diameter is 24 m. The arc length	()8	$(86-5 \times A) \div 3=7$	7, A=?
	is m.		-		
Par	rt 3. Calculations (Each question 10 marks. Total 50 marks)				
0	$8\frac{1}{4} \div 1\frac{1}{2} + 7\frac{3}{4} \div 1\frac{1}{2} =$	()2	A bunch of $\textcircled{2}$. W	Vith taking 6, 8,
	3 2			than 5 coins. How	many dollars is
8	$\left(\frac{-}{8} + \frac{-}{5}\right) \times 40 = $			this bunch of coir	ns at least?
€	109 ÷ 3.14 =				
	(Find the quotient to integer, and find the remainder)	- -			
<u>F</u>	Find the area of the gray part. (π =3) (Unit:cm)	() g	Make a cup of 30	0 ml of coffee
4				The ratio of wate	er, sugar and
				is required to mal coffee?	ke this cup of
	cm ⁻ cm ⁻				

年級			幼稚	園中班	E			幼稚[園大班				小學・	一年級				小學:	二年級	
項目	題數	選擇	填 充 題	計算題	應用題	題數	選擇	填 充 題	計 算 題	應用題	題數	選擇	填 充 題	計 算 題	應用題	題數	選擇	填 充 題	計 算 題	應用題
	1	2	()()(∨)	4	•	1	4	(\cup)()	13	11	1	3	29	22	59th	1	2	6,6 (six, six)	130	10 cuboids
껔	2	3	()(∨)()	6		2	2	()(∨)	14	10	2	2	9 (nine)	90	С	2	3	12	35	318 dollars
粐	3	1	$()(\vee)()$	8		3	3	$(\vee)()$	11	15	3	4	7 (seven)	11	enough	3	4	7	27	205
	4	1	$()()(\vee)$	3		4	1	$()(\vee)$	14	15	4	1	8 (eight)	92	49 dollars	4	1	17	413	865 dollars
月日	5	3	$(\vee)()()$	2		5	4	$(\vee)()$	9	20	5	3	9	23	20 steps	5	3	26 (twenty six)	7, 72	4 groups
	6	3	$()(\vee)$	3	3	6	3	$()()()(\vee)$	12	20	6	2	$()(\vee)()$	63	6 tens	6	1	42	608	20 legs
<u></u>	7	2	$(\vee)()$	2	8	7	2	$()(\vee)()$	5	21	7	1	$()()()(\vee)$	42	19	7	2	4 (four)	581	6 m
股	8	1	$()(\vee)$	1	4	8	2	$(\vee)()()$	1	9	8	1		7	22 cm	8	3	540, five hundred	435	25 people
題	9	3	$(\vee)()$	4	0	9	1	$()()()(\vee)$	8	5	9	4		3	37 pencils	9	4	x , —	36	younger sister
	10	2	()(∨)	9	6	10	3	$()(\vee)()$	18	3	10	3		B,C (C,B)	25 dollars	10	2	+, -(-, +)	8	976 cm
第	1	3	()(∨)	4, 2		1	3	9 (nine)	15, 5		1	3	54, 70	7	12 days	1	4	7, 10	43	5 surfaces
— 西	2	2	$()(\vee)$	11, 2		2	2	10 (ten)	2, 5		2	4	300	47	7 bundles	2	3	2/11	85	19
日	3	1	8	1, 4		3	1	6 (six)	19, 8		3	1	113	77	3, 4, 5	3	3	390	not enough	54 dollars
資	4	2	6, 2 (2, 6)	10, 7		4	4	1,30 (one, thirty)	5, 9		4	3	+, -	81	82	4	1	В	enough	2m 10cm
慢題	5	1	3, 1 (1, 3)	4, 3		5	2	8,30 (eight, thirty)	13, 8		5	2	_, _	17, 64	70th	5	2	505	100	43 marbles
	1	1	6	2, 2	20	1	4	34	16, 1	30	1	1	7 (Seven)	D, 11	9 crabs	1	3	60	87	7:25
	2	3	8	7, 3	5	2	4	5, 11	6, 10	12	2	4	12 (twelve)	B, 7	С	2	1	12	33	60 books
分	3	2	9	2, 4	3	3	2	16, 10	13, 4	21	3	2	12	8	18 people	3	4	989	53	40 dollars
加	4	1	8	8, 4	6, 24	4	1	()(V)	8, 4	7	4	3	12, 0	0	15 people	4	2	22	Dad, Older Brother	29 people
蕡	5	1	9	7, 3	24	5	3	()(V)	15, 2	20	5	2	18 (eighteen)	5	10 shoes	5	3	5	97	30 people
			· ···					b												
年級			小學	三 年 級	ł.			小學	四年級				小學	五年級				小學:	六年級	
年級 項目	題數	選擇	小 學 填 充 題	<u>三 年 級</u> 計 算 題	{ │應用題	題數	選擇	小 學 [填 充 題	<u>四 年 級</u> 計 算 題	應用題	題數	選擇	小 學 [填 充 題	<u>五 年 級</u> 計算題	應用題	題數	選擇	小 學 5 填 充 題	<u>六 年 級</u> 計 算 題	應用題
<u>年級</u> 項目	題數 1	選擇 3	小 學 <u>填充題</u> 39/50	<u>三 年 級</u> 計 <u>算題</u> 15,4	§ 應用題 3.6 kg	題數 1	選擇 2	小 學 [<u>填 充 題</u> 4 (four)	<u>四 年 級</u> <u>計 算 題</u> 1,600	<u>應用題</u> 15 cm	題數 1	選擇 4	小 學 <u>填 充 題</u> 50	<u>五 年 級</u> <u>計 算 題</u> 1184.33	<u>應用題</u> 49	題數 1	選擇 1	小 學 <u>填 充 題</u> rhombus	六 年 級 <u>計算題</u> 3 and 9/20	<u>應用題</u> 78 m
<u>年級</u> 項目 第	<u>題數</u> 1 2	選擇 3 4	小 學 <u>填充題</u> 39/50 1,40	三 年 級 計 <u>算 題</u> 15,4 405	後 應用題 3.6 kg 29cm 6mm	<u>題數</u> 1 2	選擇 2 1	小 學 <u>填充題</u> 4 (four) 2 (two)	<u>四 年 級</u> <u>計 算 題</u> 	應用題 15 cm 86400 seconds	<u>題數</u> 1 2	<u>選擇</u> 4 2	小 學 <u>填充題</u> 50 8	<u>五年級</u> <u>計算題</u> 1184.33 597	應用題 49 12 cm ²	<u>題數</u> 1 2	選擇 1 2	小 學 ; <u>填 充 題</u> rhombus 1.5	六 年 級 <u>計 算 題</u> 3 and 9/20 10	<u>應用題</u> 78 m 1720 cm ³
年 項 日 第 一	<u>題數</u> 1 2 3	選擇 3 4 2	小 學 <u>填充題</u> 39/50 1,40 2,46	三年級 計 <u>算題</u> 15,4 405 3.1	後 應用題 3.6 kg 29cm 6mm 8 cars	<u>題數</u> 1 2 3	選擇 2 1 3	小 學 <u>填充題</u> 4 (four) 2 (two) A	<u>四 年 級</u> <u>計 算 題</u> 1, 600 56, 38 31/34	應用題 15 cm ^{86400 seconds} 6000 cm ²	題數 1 2 3	<u>選擇</u> 4 2 3	小 學 <u>填充題</u> 50 8 110	<u>五年級</u> <u>計算題</u> 1184.33 597 36, 30	<u>應用題</u> 49 12 cm ² 2 hours 8 minutes	<u>題數</u> 1 2 3	選擇 1 2 2	小 學 ; <u>填充題</u> rhombus 1.5 48.5	<u>六 年 級</u> 計 算 題 3 and 9/20 10 9/13	<u>應用題</u> 78 m 1720 cm ³ 8
年 項 第 一 百	題數 1 2 3 4	選擇 3 4 2 3	小 學 <u>填 充 題</u> 39/50 1, 40 2, 46 <	三 年 級 計 算 題 15,4 405 3.1 8100	後 應用題 3.6 kg 29cm 6mm 8 cars brown rice	題數 1 2 3 4	選擇 2 1 3 4	小 學 <u>填充題</u> 4 (four) 2 (two) A seconds	<u>四 年 級</u> <u>計 算 題</u> 1, 600 56, 38 31/34 823	應用題 15 cm ^{86400 seconds} 6000 cm ² 7 hours	題數 1 2 3 4	選擇 4 2 3 1	小 學 <u>填充題</u> 50 8 110 45	<u>五年級</u> <u>計算題</u> 1184.33 597 36, 30 62 and 6/7	應用題 49 12 cm ² 2 hours 8 minutes 8400 dollars	題數 1 2 3 4	選擇 1 2 2 4	小 學 ; 填充題 rhombus 1.5 48.5 white	<u>六 年 級</u> 計 <u>算 題</u> 3 and 9/20 10 9/13 2 and 3/4	應用題 78m 1720 cm ³ 8 1and 1/5 times
年項 第一項日	題數 1 2 3 4 5	選擇 3 4 2 3 1	小 學 <u>填充題</u> 39/50 1,40 2,46 < >	三年級 計算題 15,4 405 3.1 8100 11	 應用題 3.6 kg 29cm 6mm 8 cars brown rice 5000m (5km) 	<u>題數</u> 1 2 3 4 5	選擇 2 1 3 4 2	小 學 <u>填充題</u> 4 (four) 2 (two) A seconds 405	<u>四年級</u> <u>計算題</u> 1,600 56,38 31/34 823 13.58	應用題 15 cm 86400 seconds 6000 cm ² 7 hours 75000 peoples	<u>題數</u> 1 2 3 4 5	選擇 4 2 3 1 1	小 學 <u>填充題</u> 50 8 110 45 66	五年級 計算題 1184.33 597 36,30 62 and 6/7 280.865	<u>應用題</u> 49 12 cm ² 2 hours 8 minutes 8400 dollars 60000 dollars	題數 1 2 3 4 5	選擇 1 2 2 4 3	小 學 ; 填充題 rhombus 1.5 48.5 white 352	六 年 級 計 算 題 3 and 9/20 10 9/13 2 and 3/4 315.4	應用題 78m 1720 cm ³ 8 1and 1/5 times 2 boxes
年項 第一項目一	題數 1 2 3 4 5 6	選擇 3 4 2 3 1 3	小 學 <u>填 充 題</u> 39/50 1, 40 2, 46 < > 80, 9	三年級 計算題 15,4 405 3.1 8100 11 9/20	後 應用題 3.6 kg 29cm 6mm 8 cars brown rice 5000m (5km) 3/16	題數 1 2 3 4 5 6	選擇 2 1 3 4 2 3	小 學 <u>填充題</u> 4 (four) 2 (two) A seconds 405	<u>四年級</u> <u>計算題</u> 1,600 56,38 31/34 823 13.58 142	應用題 15 cm ^{86400 seconds} 6000 cm ² 7 hours 75000 peoples 1 and 1/12	題數 1 2 3 4 5 6	選擇 4 2 3 1 1 2	小 學 <u>填充題</u> 50 8 110 45 66 160	<u>五年級</u> <u>計算題</u> 1184.33 597 36, 30 62 and 6/7 280.865 0.13	應用題 49 12 cm ² 2 hours 8 minutes 8400 dollars 60000 dollars 144 m ²	題數 1 2 3 4 5 6	選擇 1 2 2 4 3 1	小 學 ; 填充題 rhombus 1.5 48.5 white 352 25	<u>六 年 級</u> 計 <u>算 題</u> 3 and 9/20 10 9/13 2 and 3/4 315.4 803.84	應用題 78m 1720 cm ³ 8 1and 1/5 times 2 boxes 3/4(75%, 0.75)
年項 第一項目一	題數 1 2 3 4 5 6 7	選擇 3 4 2 3 1 3 1 3 1	小 學 <u>填充題</u> 39/50 1,40 2,46 < < > 80,9 4	三年級 計 <u>算題</u> 15,4 405 3.1 8100 11 9/20 1 (10/10)	後 應用題 3.6 kg 29cm 6mm 8 cars brown rice 5000m (5km) 3/16 229	<u>題數</u> 1 3 4 5 6 7	選擇 2 1 3 4 2 3 1	小 學 <u>填充題</u> 4 (four) 2 (two) A seconds 405	四年級 計算題 1,600 56,38 31/34 823 13.58 13.58 142 345	<u> 應 用 題</u> 15 cm 86400 seconds 6000 cm ² 7 hours 75000 peoples 1 and 1/12 2240 dollars	題數 1 2 3 4 5 6 7	選擇 4 2 3 1 1 2 3	小學 <u>填充題</u> 50 8 110 45 66 160	五年級 計算題 1184.33 597 36,30 62 and 6/7 280.865 0.13 ^{116.872} (116 and 109/125)	<u>應用題</u> 49 12 cm ² ^{2 hours 8 minutes 8400 dollars 60000 dollars 144 m² 162.948 cm}	題數 1 2 3 4 5 6 7	選擇 1 2 2 4 3 1 3	小 學 ; <u>填充題</u> rhombus 1.5 48.5 white 352 25 ^{18/100(18% · 9/50)}	<u>六 年 級</u> <u>計 算 題</u> 3 and 9/20 10 9/13 2 and 3/4 315.4 803.84 24	應用題 78m 1720 cm ³ 8 1and 1/5 times 2 boxes 3/4(75%, 0.75) C
年項 第一項目一般頭級目	題數 1 2 3 4 5 6 7 8	選擇 3 4 2 3 1 3 1 4	小 學 <u>填充題</u> 39/50 1,40 2,46 < > 80,9 4 5	 三年級 計算題 15,4 405 3.1 8100 11 9/20 1 (10/10) 7/19 	後 應用題 3.6 kg 29cm 6mm 8 cars brown rice 5000m (5km) 3/16 229 77.7	<u>題數</u> 1 2 3 4 5 6 7 8	選擇 2 1 3 4 2 3 1 2	小 學 <u>填充題</u> 4 (four) 2 (two) A seconds 405	<u>四年級</u> <u>計算題</u> 1,600 56,38 31/34 823 13.58 13.58 142 345 260	應用題 15 cm 86400 seconds 6000 cm ² 7 hours 75000 peoples 1 and 1/12 2240 dollars Class B, 26 people	題 割 1 2 3 4 5 6 7 8	選擇 4 3 1 1 2 3 3 4	小學 <u>填充題</u> 50 8 110 45 66 160	五年級 計算題 1184.33 597 36, 30 62 and 6/7 280.865 0.13 ^{116.872} (116 and 109/125) 1632	應用題 49 12 cm ² ^{2 hours 8 minutes} 8400 dollars 60000 dollars 144 m ² 162.948 cm 275 cm	<u>題數</u> 1 2 3 4 5 6 7 8	選擇 1 2 4 3 1 3 2	小 學 ; <u>填充題</u> rhombus 1.5 48.5 white 352 25 ^{18/100(18% · 9/50)} 32	<u>六 年 級</u> <u>計 算 題</u> 3 and 9/20 10 9/13 2 and 3/4 315.4 803.84 24 24	應用題 78m 1720 cm ³ 8 1and 1/5 times 2 boxes 3/4(75%, 0.75) C 460 boys
年項 第一項目一般題	題數 1 2 3 4 5 6 7 8 9	選擇 3 4 2 3 1 3 1 3 1 4 2	小 學 <u>填 充 題</u> 39/50 1,40 2,46 < > 80,9 4 5 70,100 (100,70)	 三年級 計算題 15,4 405 3.1 8100 11 9/20 1 (10/10) 7/19 75 	 應 用 題 3.6 kg 29cm 6mm 8 cars brown rice 5000m (5km) 3/16 229 77.7 Tiffany 	題數 1 2 3 4 5 6 7 8 9	選擇 2 1 3 4 2 3 1 2 4	小 學 <u>填充題</u> 4 (four) 2 (two) A seconds 405	四年級 計算題 1,600 56,38 31/34 823 13.58 142 345 260 2400	<u> 應 用 題</u> 15 cm 86400 seconds 6000 cm ² 7 hours 75000 peoples 1 and 1/12 2240 dollars Class B, 26 people 82.5 liters	題數 1 2 3 4 5 6 7 8 8 9	選擇 4 2 3 1 1 2 3 3 4 1	小 學 <u>填充題</u> 50 8 110 45 66 160	五年級 計算題 1184.33 597 36,30 62 and 6/7 280.865 0.13 ^{116.872} (116 and 109/125) 1632 70 and 5/6	應用題 49 12 cm ² 2 hours 8 minutes 8400 dollars 60000 dollars 144 m ² 162.948 cm 275 cm all the same	題 割 2 3 4 5 6 7 8 9	選擇 1 2 4 3 1 3 2 4	小 學 ; <u>填 充 題</u> rhombus 1.5 48.5 white 352 25 ^{18/100(18% · 9/50)} 32 50	<u>六 年 級</u> 計 <u>算 題</u> 3 and 9/20 10 9/13 2 and 3/4 315.4 803.84 24 24 24 36	應用題 78m 1720 cm ³ 8 1and 1/5 times 2 boxes 3/4(75%, 0.75) C 460 boys 20 km
年項 第一項目一般題	題數 1 2 3 4 5 6 7 8 9 10	選擇 3 4 2 3 1 3 1 4 2 1	小 學 <u>填 充 題</u> 39/50 1,40 2,46 < > 80,9 4 5 70,100 (100,70) 33	 三年級 計算題 15,4 405 3.1 8100 11 9/20 1 (10/10) 7/19 75 56 	後 應用題 3.6 kg 29cm 6mm 8 cars brown rice 5000m (5km) 3/16 229 77.7 Tiffany 124 cm ³	題 割 3 4 5 6 7 8 9 10	選擇 2 1 3 4 2 3 1 2 4 1	小 學 <u>填充題</u> 4 (four) 2 (two) A seconds 405	<u>四年級</u> <u>計算題</u> 1,600 56,38 31/34 823 13.58 13.58 142 345 260 2400 2200	應用題 15 cm 86400 seconds 6000 cm ² 7 hours 75000 peoples 1 and 1/12 2240 dollars Class B, 26 people 82.5 liters 10.4 km	題 1 2 3 4 5 6 7 8 9 10	選擇 4 3 1 1 2 3 4 1 2	小 學 <u>填充題</u> 50 8 110 45 66 160	<u>五年級</u> <u>計算題</u> 1184.33 597 36, 30 62 and 6/7 280.865 0.13 ^{116.872} (116 and 109/125) 1632 70 and 5/6 96	應用題 49 12 cm ² ^{2 hours 8 minutes} 8400 dollars 60000 dollars 144 m ² 162.948 cm 275 cm all the same 100 dollars	題 1 2 3 4 5 6 7 8 9 10	選擇 1 2 4 3 1 3 2 4 3 3	小 學 ; <u>填充題</u> rhombus 1.5 48.5 white 352 25 ^{18/100(18% · 9/50)} 32 50 0	<u>六 年 級</u> <u>計 算 題</u> 3 and 9/20 10 9/13 2 and 3/4 315.4 803.84 24 24 24 36 8	應用題 78m 1720 cm ³ 8 1and 1/5 times 2 boxes 3/4(75%, 0.75) C 460 boys 20 km 60 km
年項 第一項目一般題 第	題數 1 2 3 4 5 6 7 8 9 10	選擇 3 4 2 3 1 3 1 4 2 1 3	小 學 <u>填 充 題</u> 39/50 1,40 2,46 < > 80,9 4 5 70,100 (100,70) <u>33</u> saturday	 三年級 計算題 15,4 405 3.1 8100 11 9/20 1 (10/10) 7/19 75 56 65/99 	應用題 3.6 kg 29cm 6mm 8 cars brown rice 5000m (5km) 3/16 229 77.7 Tiffany 124 cm ³ 9 cm ³	題數 1 2 3 4 5 6 7 8 9 10	選擇 2 1 3 4 2 3 1 2 4 1 2 1 2	小 學 <u>填充題</u> 4 (four) 2 (two) A seconds 405	四年級 計算題 1,600 56,38 31/34 823 13.58 142 345 260 2400 2200 12	<u>應用題</u> 15 cm 86400 seconds 6000 cm ² 7 hours 75000 peoples 1 and 1/12 2240 dollars Class B, 26 people 82.5 liters 10.4 km 54000 km	題數 1 2 3 4 5 6 7 8 9 10 1	選擇 4 3 1 1 2 3 4 1 2 1 2	小 學 <u>填充題</u> 50 8 110 45 66 160 160 12,60	五年級 計算題 1184.33 597 36, 30 62 and 6/7 280.865 0.13 ^{116.872} (116 and 109/125) 1632 70 and 5/6 96 422.61	應用題 49 12 cm ² 2 hours 8 minutes 8400 dollars 60000 dollars 144 m ² 162.948 cm 275 cm all the same 100 dollars 1008 cm ²	題 割 3 4 5 6 7 8 9 10	選擇 1 2 4 3 1 3 2 4 3 4 3	小 學 ; <u>填 充 題</u> rhombus 1.5 48.5 white 352 25 ^{18/100(18% · 9/50)} 32 50 0 7/36	 六 年 級 計 算 題 3 and 9/20 10 9/13 2 and 3/4 315.4 803.84 24 24 24 36 8 3/35 	應用題 78m 1720 cm ³ 8 1and 1/5 times 2 boxes 3/4(75%, 0.75) C 460 boys 20 km 60 km
年項 第一項目一般題 第一項	題數 1 2 3 4 5 6 7 8 9 10 1 2	選擇 3 4 2 3 1 3 1 4 2 1 3 4 3 4	小 學 <u>填 充 題</u> 39/50 1,40 2,46 < > 80,9 4 5 70,100 (100,70) <u>33</u> saturday wednesday	 三年級 計算題 15,4 405 3.1 8100 11 9/20 1 (10/10) 7/19 75 56 65/99 0.1 	後 應用題 3.6 kg 29cm 6mm 8 cars brown rice 5000m (5km) 3/16 229 77.7 Tiffany 124 cm ³ 9 cm ³ 75 cm	題 割 3 4 5 6 7 8 9 10 1 2	選擇 2 1 3 4 2 3 1 2 4 1 2 1	小 學 <u>填充題</u> 4 (four) 2 (two) A seconds 405 •••••••••••••••••••••••••••••••••••	四年級 計算題 1,600 56,38 31/34 823 13.58 142 345 260 2400 2200 12 21,27	應用題 15 cm 86400 seconds 6000 cm ² 7 hours 75000 peoples 1 and 1/12 2240 dollars Class B, 26 people 82.5 liters 10.4 km 54000 km 11/18	題 割 1 2 3 4 5 6 7 8 9 10 1 2	選擇 4 3 1 1 2 3 4 1 2 1 2 1 2	小 學 <u>填充題</u> 50 8 110 45 66 160 ••••••••••••••••••••••••••••••••	<u>五年級</u> <u>計算題</u> 1184.33 597 36, 30 62 and 6/7 280.865 0.13 ^{116.872} (116 and 109/125) 1632 70 and 5/6 96 422.61 10	應用題 49 12 cm ² 2 hours 8 minutes 8400 dollars 60000 dollars 144 m ² 162.948 cm 275 cm all the same 100 dollars 1008 cm ² 1 and 11/25 (1.44) cm ²	題 割 3 4 5 6 7 8 9 10 1 2	選擇 1 2 4 3 1 3 2 4 3 4 3 4 1	小 學 ; 填充題 rhombus 1.5 48.5 white 352 25 ^{18/100(18% · 9/50)} 32 50 0 7/36 251	<u>六 年 級</u> <u>計 算 題</u> 3 and 9/20 10 9/13 2 and 3/4 315.4 803.84 24 24 24 36 8 3/35 19/20 (0.95)	應用題 78m 1720 cm ³ 8 1and 1/5 times 2 boxes 3/4(75%, 0.75) C 460 boys 20 km 60 km 60 cm 7/12
年項 第一項目一般題 第一項目	題數 1 2 3 4 5 6 7 8 9 10 10 2 3	選擇 3 4 2 3 1 3 1 4 2 1 3 4 2 2	小 學 <u>填 充 題</u> <u>39/50</u> 1,40 2,46 < > 80,9 4 5 70,100 (100,70) <u>33</u> saturday wednesday 40000	 三年級 計算題 15,4 405 3.1 8100 11 9/20 1 (10/10) 7/19 75 56 65/99 0.1 9/11 	 應用題 	題 割 3 4 5 6 7 8 9 10 1 2 3	選擇 2 1 3 4 2 3 1 2 4 1 2 1 2 1 3	小 學 <u>填充題</u> 4 (four) 2 (two) A seconds 405 •••••••••••••••••••••••••••••••••••	四年級 計算題 1,600 56,38 31/34 823 13.58 142 345 260 2400 2200 12 21,27 1 and 14/19	<u>應用題</u> 15 cm 86400 seconds 6000 cm ² 7 hours 75000 peoples 1 and 1/12 2240 dollars Class B, 26 people 82.5 liters 10.4 km 54000 km 11/18 1320	題數 1 2 3 4 5 6 7 8 9 10 10 1 2 3	選擇 4 3 1 1 2 3 4 1 2 1 2 3 3	小 學 <u>填充題</u> 50 8 110 45 66 160 160 12,60 A 8	五年級 計算題 1184.33 597 36, 30 62 and 6/7 280.865 0.13 116.872 (116 and 109/125) 1632 70 and 5/6 96 422.61 10 6	應用題 49 12 cm ² 2 hours 8 minutes 8400 dollars 60000 dollars 144 m ² 162.948 cm 275 cm all the same 100 dollars 1008 cm ² 1 and 11/25 (1.44) cm ² 6.3 kiloliters	題 割 3 4 5 6 7 8 9 10 10 1 2 3	選擇 1 2 4 3 1 3 2 4 3 4 3 4 1 2	小 學 ; 填 充 題 rhombus 1.5 48.5 white 352 25 ^{18/100(18% · 9/50)} 32 50 0 7/36 251 99	 六 年 級 計 算 題 3 and 9/20 10 9/13 2 and 3/4 315.4 803.84 24 24 36 8 3/35 19/20 (0.95) 7 and 1/2 (7.5) 	應用題 78m 1720 cm ³ 8 1and 1/5 times 2 boxes 3/4(75%, 0.75) C 460 boys 20 km 60 km 60 cm 7/12 4 cars
年項第一項目一般題第一項目資優	題數 1 2 3 4 5 6 7 8 9 10 1 2 3 4	選擇 3 4 2 3 1 3 1 4 2 1 3 4 2 1	小 學 <u>填 充 題</u> <u>39/50</u> 1,40 2,46 < > 80,9 4 <u>5</u> 70,100 (100,70) <u>33</u> <u>saturday</u> wednesday <u>40000</u> 175000	 三年級 計算題 15,4 405 3.1 8100 11 9/20 1 (10/10) 7/19 75 56 65/99 0.1 9/11 26, 312 	後 應用題 3.6 kg 29cm 6mm 8 cars brown rice 5000m (5km) 3/16 229 77.7 Tiffany 124 cm ³ 9 cm ³ 75 cm 654 20.4	題 割 3 4 5 6 7 8 9 10 1 2 3 4	選擇 2 1 3 4 2 3 1 2 4 1 2 1 3 4	小 學 <u>填充題</u> 4 (four) 2 (two) A seconds 405 • • • • • • • • • • • • •	<u>四年級</u> <u>計算題</u> 1,600 56,38 31/34 823 13.58 142 345 260 2400 2200 12 21,27 1 and 14/19 64	應用題 15 cm 86400 seconds 6000 cm ² 7 hours 75000 peoples 1 and 1/12 2240 dollars Class B, 26 people 82.5 liters 10.4 km 54000 km 11/18 1320 822.5 km	題 割 1 2 3 4 5 6 7 8 9 10 1 2 3 4 3 4	選擇 4 3 1 1 2 3 4 1 2 1 2 3 4 3 4	小 學 <u>填充題</u> 50 8 110 45 66 160 160 12,60 A 8 0.327	<u>五年級</u> <u>計算題</u> 1184.33 597 36, 30 62 and 6/7 280.865 0.13 ^{116.872} (116 and 109/125) 1632 70 and 5/6 96 422.61 10 6 2047/2048	應用題 49 12 cm ² 2 hours 8 minutes 8400 dollars 60000 dollars 144 m ² 162.948 cm 275 cm all the same 100 dollars 1008 cm ² 1 and 11/25 (1.44) cm ² 6.3 kiloliters 35	題 割 3 4 5 6 7 8 9 10 1 2 3 4	選擇 1 2 4 3 1 3 2 4 3 4 3 4 1 2 4 1 2 4	小 學 ; 填 充 題 rhombus 1.5 48.5 white 352 25 ^{18/100(18% · 9/50)} 32 50 0 7/36 251 99 70	<u>六 年 級</u> <u>計 算 題</u> 3 and 9/20 10 9/13 2 and 3/4 315.4 803.84 24 24 24 36 8 3/35 19/20 (0.95) 7 and 1/2 (7.5) 20	應用題 78m 1720 cm ³ 8 1and 1/5 times 2 boxes 3/4(75%, 0.75) C 460 boys 20 km 60 km 60 km 60 cm 7/12 4 cars 8 cm
年項 第一項目一般題 第一項目資優題	題數 1 2 3 4 5 6 7 8 9 10 10 2 3 4 5	選擇 3 4 2 3 1 3 1 4 2 1 3 4 2 1 3 3	小 學 <u>填 充 題</u> <u>39/50</u> 1,40 2,46 < > 80,9 4 5 70,100 (100,70) <u>33</u> saturday wednesday 40000 175000 87500	 三年級 計算題 15,4 405 3.1 8100 11 9/20 1 (10/10) 7/19 75 56 65/99 0.1 9/11 26,312 2340,468 	 應用題 3.6 kg 29cm 6mm 8 cars brown rice 5000m (5km) 3/16 229 77.7 Tiffany 124 cm³ 9 cm³ 75 cm 654 20.4 363 cm² 	題 割 3 4 5 6 7 8 9 10 1 2 3 4 5	選擇 2 1 3 4 2 3 1 2 4 1 2 1 3 4 1 3 4 1	小 學 <u>填充題</u> 4 (four) 2 (two) A seconds 405 405 7, 10 17 4/15 60 102	四年級 計算題 1,600 56,38 31/34 823 13.58 142 345 260 2400 2200 12 21,27 1 and 14/19 64 1500	<u>應 用 題</u> 15 cm 86400 seconds 6000 cm ² 7 hours 75000 peoples 1 and 1/12 2240 dollars Class B, 26 people 82.5 liters 10.4 km 54000 km 11/18 1320 822.5 km 13 cups	題 割 1 2 3 4 5 6 7 8 9 10 10 1 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	選擇 4 2 3 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 1 2 3 4 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 2 1 1 1 1 2 1	小 學 <u>填充題</u> 50 8 110 45 66 160 160 12,60 A 8 0.327 1.553	五年級 計算題 1184.33 597 36, 30 62 and 6/7 280.865 0.13 116.872 (116 and 109/125) 1632 70 and 5/6 96 422.61 10 6 2047/2048 168	應用題 49 12 cm ² 2 hours 8 minutes 8400 dollars 60000 dollars 144 m ² 162.948 cm 275 cm all the same 100 dollars 1008 cm ² 1 and 11/25 (1.44) cm ² 6.3 kiloliters 35 decreased	題 割 3 4 5 6 7 8 9 10 1 2 3 4 5	選擇 1 2 4 3 1 3 2 4 3 4 3 4 1 2 4 3	小 學 ; <u>填 充 題</u> rhombus 1.5 48.5 white 352 25 ^{18/100(18% · 9/50)} 32 50 0 7/36 251 99 70 56	 六 年 級 計 算 題 3 and 9/20 10 9/13 2 and 3/4 315.4 803.84 24 24 24 36 8 3/35 19/20 (0.95) 7 and 1/2 (7.5) 20 22.5 	應用題 78m 1720 cm ³ 8 1and 1/5 times 2 boxes 3/4(75%, 0.75) C 460 boys 20 km 60 km 60 cm 7/12 4 cars 8 cm 100 km
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					Score	e / 300
		Student ID The Seven	th C	Grad	Time Allowed :15 minutes	
()1.	Mom's money can just buy 15 kg of beef or 20 kg of pork. If Mom bought 6 kg of beef first, the remaining money can buy how many kilograms of pork?	()6.	The area of the triangle enclosed by $3x+by=18$ and the y-axes is 54 square units. It does not pass through the s quadrant. Find $b=?$	e <i>x</i> -axes and econd
		 (A) 6 kg (B) 8 kg (C) 9 kg (D) 12 kg 			(A) 1 (B) -1 (C) 2 (D) -2	
()2.	$\begin{cases} 2x - y = 7\\ 3x + ay = 5 \end{cases}$, There is exactly one solution. Then <i>a</i> cannot be (A) -2 (B) $-\frac{3}{2}$ (C) -1 (D) $-\frac{1}{2}$	()7.	 a: b=2: 3, Which of the following is correct? (A) a+1: b+1=3: 4 (B) a+b: b²=5: 9 	
()3.	$-1 < x < 0$, then $(x + \frac{1}{x}, x - \frac{1}{x})$ in which quadrant? (A) The first quadrant	()8.	(C) $a^2 : b^2 = 4 : 9$ (D) All of the above $3a = 2b$, $a : c = 4 : 5$, $[a, b, c] = 120$. Find $a + b - b^2$	· <i>c</i> =?
		(B) The second quadrant(C) The third quadrant(D) The fourth quadrant)9.	(A) 10 (B) 12 (C) 14 (D) 16The three sides of the triangle are <i>a</i>, <i>b</i>, <i>c</i>. Respectively	corresponding
()4.	From $P(2a-1, 5-b)$ to x-axis the distance is 3, to y-axis the distance is 5. then $a-b$ cannot be (A) -1 (B) -4 (C) -5			to the height <i>ha</i> , <i>hb</i> , <i>hc</i> . If $a : b = 1\frac{1}{2} : 1\frac{1}{3}$, $b : c = 0.2 : 0$ Find <i>ha</i> : <i>hb</i> : <i>hc</i> =? (A) 9 : 8 : 12 (B) 12 : 8 : 9 (C) 8 : 9 : 6 (D) 6 : 0 : 0	0.3,
()5.	 (D) -10 Line ax+by=3 is through (6, -6), and the vertical y-axis. Find a-b=? (A) 1 (B) -1 (C) 2 (D) -2 	()10.	(D) $6 \cdot 9 \cdot 8$ x and y are in inverse proportion. $y+1$ and $z-1$ are in c proportion. when $x=4$ and $y=9$, $z=21$. then $x=6$, $z=6$ (A) 11 (B) 13 (C) 15 (D) 17	lirect ?

()11.
$$f(x) = x^{99} + 33x^{33} + 2x^2 - 1$$
, Find $f(3) + f(-3) = ?$

- (A) 17
- **(B)** –17
- **(C)** 34
- (D) -34
- ()12. $L_1: y = ax + b$, $L_2: y = cx + d$, Which of the following is correct?
 - (A) 3a+b>3c+d
 - (B) 3a+b=3c+d
 - (C) 3a+b<3c+d
 - (D) Can not be determined
- ()13. 0 < a < 1, Which of the following is wrong?
 - (A) $a < \frac{1}{a}$ (B) $a^2 < a$ (C) $-a > -\frac{1}{a}$ (D) $-a^2 < -a$
- ()14. a < 0, 2ax > 6a, The solution of this inequality is
 - (A) x > -3
 - **(B)** *x* < −3
 - (C) *x*>3
 - (D) *x*<3
- ()15. There are x rooms in the dormitory. If 5 students live in each room, There are 2 students left without dormitories. If 6 students live in each room, There is one room has the live students but it is not full. How many rooms are there?
 - (A) 6 rooms (B) 7 rooms (C) 8 rooms (D) 9 rooms

-)16. The solution of 5x-26 < 2-x < 2x+1 is a < x < b, Find a+b=?
 - (A) 2
 - **(B)** 3
 - **(C)** 4
 - (D) 5
-)17. f(x) is a constant function, and f(1) + f(2) + f(3) = 6, Find f(-1) + f(-2) = ?(A) -4
 - (B) -2
 - (C) 2
 - (D) 4
 -)18. A and B exchange $\frac{1}{4}$ of their money with each other. As a result, A became twice as much as B. The ratio of the original money of A and B is
 - (A) 2 : 1
 - **(B)** 3 : 1
 - (C) 4 : 1
 - (D) 5 : 1
-)19. If the velocity is increased by 25%. When the same distance. How much time will be reduced?
 - (A) 15%
 - **(B)** 20%
 - (C) 25%
 - (D) 30%
 -)20. The original x dollars. y dollars spent. The remaining money is half the original, and more than 200 dollars. Then 800 dollars spent. The last remaining money is $\frac{1}{3}$ the original, and less than 100 dollars. Find x+y=?

(A) 4000 (B) 4300 (C) 4600 (D) 4900 dollars

-)21. Take the same small rectangle to make the large rectangle. The small rectangle has an area of
 - (A) $800 \ cm^2$
 - (B) 1000 cm²
 - (C) 1200 cm²
 - (D) 1600 cm²
- ()22. The intersection of $L_1: ax + 3y = 6$ and $L_2: 2x by = -3$ is on the x-axis., Find a = ?
 - (A) -4 (B) $-\frac{7}{2}$ (C) -3 (D) $-\frac{5}{2}$
- ()23. P(a-b, ab) in the fourth quadrant, Which of the following is wrong?
 (A) (b, a) in the second quadrant
 (B) (ab, b-a) in the second quadrant
 (C) (a², -b²) in the fourth quadrant
 (D) (^b/_a, a+b) in the second quadrant

()24.
$$x-y=13$$
, $2x+3y=-4$, $3x+ay=18$, Find $a=?$

- (A) -2(B) $-\frac{1}{2}$ (C) $\frac{1}{2}$ (D) 2
- (
-)25. x km mountain road. Uphill speed is 2 km per hour. Downhill speed is 3 km per hour. The round trip took less than 3 hours. If x is an integer. Then the maximum value of x is
 - (A) 2 km (B) 3 km (C) 4 km (D) 5 km

)26. More than 50 tickets for the amusement park ticket are 15% off. Then at least how many people buy 50 tickets will be cheaper?

(A) 41 (B) 42 (C) 43 (D) 44 people

-)27. Which of the following is wrong?
 - (A) Height is a function of seat number
 - (B) Weight is a function of height(C) Seat number is a function of weight
 - (D) Weight is a function of seat number



)28. If the ring area is $\frac{7}{16}$ times the whole circle area.

The whole circle radius : The ring radius is

(A) 4 : 3
(B) 9 : 7
(C) 16 : 7
(D) 16 : 9

(

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-)29. A walking distance of 4 steps is equal to B walking 5 steps. A walking time of 3 steps is equal to B walking 4 steps. What is the speed ratio of A and B?
 - (A) 3 : 5
 (B) 5 : 3
 (C) 15 : 16
 - (D) 16 : 15
-)30. (1) x and y are in direct proportion. then x is increased, and y is increased.
 (2) x and y are in inverse proportion. then x is reduced, and y is reduced.
 (3) If x is increased, and y is increased. then x and y are in direct proportion.
 (4) If x is reduced, and y is reduced. then x and y are in inverse proportion. How many items of the above are correct?

(A) 0 items (B) 1 items (C) 2 items (D) 3 items

						Score / 300
		Student ID The Eight	h G	rad	e Set 1 Time Allowed :15 minutes	
()1.	The arithmetic sequence $a_1 + a_2 + a_3 = 27$, $a_{28} + a_{29} + a_{30} = 63$, Find $S_{30} = ?$ (A) 300 (B) 450 (C) 600 (D) 900	()6.	Rectangle <i>ABCD</i> . <i>F</i> is the \overline{BC} midpoint. (A) 110°	$\overline{GF} \perp \overline{BC}$, Find $\angle AGF=?$
()2.	The triangle $2(\angle A + \angle C) = 3 \angle B + 10$, Find the supplementary angle of $\angle B$?			 (B) 120° (C) 135° (D) 150° 	
		 (A) 100 (B) 105° (C) 110° (D) 115° 	()7.	The side length of the regular triangle AB If the P to \overline{AB} distance is 1. The P to \overline{AB} \overline{BC} distance is closest to	$\frac{PC}{AC}$ is 8. <i>P</i> is an internal point. $\frac{AC}{AC}$ distance is 2. <i>P</i> to
()3.	Insert <i>M</i> number between -8 and 12, so that the sequence is equal to the arithmetic sequence, and the total number of <i>M</i> is 18. Find insert the fourth term?			 (A) 2 (B) 2.5 (C) 3 (D) 3.5 	B C
		(A) -2 (B) 0 (C) 2 (D) 4	()8.	In <i>A</i> , <i>B</i> as the center of a circle. \overline{AB} is the drawn. How many intersection points do \overline{A} (A) 0 points (B) 1 points (C) 2 points (D) cannot be determined	he diameter. each circle is these two circles have?
()4.	$1+2-3+4+5-6+7+8-9+\dots+100=?$ (A) 1584 (B) 1634 (C) 1684 (D) 1734	()9.	(\Box) 2 points (\Box) cannot be determine $\triangle ABC$, $\angle A = 100^{\circ}$, The angular bisector at point <i>P</i> . Find $\angle BPC = ?$ (A) 120°	r of $\angle B$ and $\angle C$ crosses
()5.	Point $P(-1, -4)$ has an axis of symmetry with $y = -2$. There will be a symmetric point (a, b) . Find $a - b = ?$ (A) -1			 (A) 120 (B) 130° (C) 140° (D) 150° 	
		 (B) 0 (C) 1 (D) 2 	()10.	A convex polygon. If there is missing 1 ir interior angle is 2018° . This polygon will	nterior angle, the sum of the have
					(A) 44 (B) 54 (C) 65 (D) 77 d	lagonals



-)16. The circle has a radius of $6 \ cm$. If a chord length is $6 \ cm$. The segment area enclosed with the minor arc will be closest to
 - (A) 3 cm²
 (B) 4 cm²

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- (C) 5 cm²
- (D) $6 cm^2$
-)17. Arithmetic series $\sqrt{3} + \frac{2}{\sqrt{3}-1} + \frac{-1}{\sqrt{3}-2} + \dots + a_{10}$ is (A) $45+10\sqrt{3}$ (B) $50+10\sqrt{3}$ (C) $45+20\sqrt{3}$ (D) $150+10\sqrt{3}$
-)18. The interior angle of the decagon is an arithmetic sequence. The common difference is 4. The minimum interior angle is
 - (A) 120°
 - **(B)** 122°
 - (C) 124°
 - **(D)** 126°
-)19. The parallelogram has *a* axis of symmetry. The rectangle has *b* axes of symmetry. The regular triangle has *c* axes of symmetry. The regular pentagon has *d* axes of symmetry. Find a+b+c+d=?
 - (A) 5
 - **(B)** 7
 - (C) 9
 - **(D)** 10
-)20. Parallelogram *ABCD*, $\overline{AB} = 10$, $\overline{BC} = 8$, $\angle D = 60^{\circ}$, Find area? (A) 20 (B) 40 (C) $20\sqrt{3}$ (D) $40\sqrt{3}$

-)21. The three numbers are the arithmetic sequence. The sum of three numbers is 24. The product of three numbers is 312. Find common difference?
 - (A) 3
 - **(B)** 4
 - (C) 5
 - (D) 6
-)22. Triangle ABC, The \overline{BC} midpoint is D. The \overline{BD} midpoint is E. The \overline{DE} midpoint is F. Find $\triangle ABF : \triangle ACF$?
 - (A) 1 : 7
 - **(B)** 3 : 5
 - (C) 5:3
 - (D) 7 : 1
-)23. *A*, *B* on the different side of Line *L*, And *AB* midpoint is not on Line *L*. How many $\triangle PAB$ can be found on the line *L* as isosceles triangles?
 - (A) 1 isosceles triangles
 - (B) 2 isosceles triangles
 - (C) 3 isosceles triangles
 - (D) 4 isosceles triangles

()24. Triangle ABC,
$$\angle ACB=100^{\circ}$$
, $\overline{AF}=\overline{AC}$, $\overline{BE}=\overline{BC}$, Find $\angle ECF$?
(A) 38°

F

- **(B)** 40[°]
- (C) 42°
- (D) 44°
- (D) 44
-)25. Arithmetic sequence $a_3 = 2^3$, $a_7 = 2^7$, Find $a_{10} = ?$ (A) 2^{10} (B) 2^8 (C) 218 (D) 164

-)26. Triangle ABC, $\angle ABC = 90^{\circ}$, $\angle A = 46^{\circ}$, \overline{BD} is the angular bisector. Which of the following is correct? (A) $\overline{AD} > \overline{BD} > \overline{CD}$ (B) $\overline{AD} < \overline{BD} < \overline{CD}$ (C) $\overline{BD} > \overline{AD} > \overline{CD}$ (D) $\overline{BD} > \overline{CD} > \overline{AD}$
-)27. Which of the following can be the sum of 50 consecutive positive integers?
 (A) 2601545
 (B) 2601565
 - (C) 2601505

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- (D) 2601585
-)28. The interior angle of the *n*-shape (polygon) is an arithmetic sequence with a common difference of 5°. If the maximum interior angle is 160° , Find n=?
 - (A) 9 (B) 10 (C) 11 (D) 12
-)29. If $\angle 1 = 104^{\circ}$, Find $\angle A + \angle B + \angle C + \angle D + \angle E + \angle F + \angle H + \angle G = ?$
 - (A) 256°
 (B) 264°
 (C) 276°
 (D) 284°



-)30. Diamond *ABCD* and parallelogram *BCFD*, Which of the following is correct?
 - (A) $\angle A = \angle BCD$
 - (B) $\angle ABD = \angle DFC$
 - (C) $\overline{AB} = \overline{DF}$
 - (D) $\angle CBD = \angle CDF$



						Score / 300
		Student ID The Nint	h (Grad	e Set 1 Time Allowed :15 minutes	
()1.	The vertex of the quadratic function is $(1, 3)$. And intersects the x-axis at two points A, B. $\overline{AB} = 5$. Then in $f(2)$, $f(3)$, $f(4)$, $f(5)$, how many are positive? (A) 1 (B) 2 (C) 3 (D) 4	()6.	The radius of the cone undersurface is 2 cm vertex to the undersurface is $4\sqrt{2}$ cm. Find (A) 16π cm ² (B) 18π cm ²	<i>m</i> . The distance from the d the surface area?
()2.	$y = a(x-h)^2 + k$, Passes through (0, -4), (8, -2), If $a > 0$, $0 < k < 8$, The possible range of <i>h</i> is			(C) $20 \pi cm^2$ (D) $22 \pi cm^2$	
		(A) $0 < h < 4$ (B) $h = 4$ (C) $4 < h < 8$ (D) cannot be determined	()7.	1, 2, 3, 4, 5, 6, Take any number <i>x</i> , Hence sides of a triangle, this probability is (A) $\frac{1}{6}$ (B) $\frac{1}{3}$ (C) $\frac{1}{2}$ (D) $\frac{2}{3}$	x, x+8, x+11 will be the
()3.	$y=x^2-2x+a$ moves left by <i>b</i> units. Then move down 5 units. Get $y=x^2+6x+c$, Find $a+b-c=?$ (A) 1	()8.	Take any number of positive integers from probability of being a multiple of 2 or 3? (A) $\frac{31}{50}$ (B) $\frac{33}{50}$ (C) $\frac{37}{50}$ (D) $\frac{41}{50}$	n 1 to 50. Find the
		(B) 2 (C) 3 (D) 4	()9.	There are 1, 2, 3, 4, 5, 6 six balls in the ball being taken is the same. If <i>A</i> takes a ball being taken the probability of $A > B$	g. The probability of each all and puts it back, <i>B</i> took is
()4.	Rectangular <i>ABCD</i> . If $AB + BC + CD = 100$. The maximum area of the rectangle is			(A) $\frac{13}{36}$ (B) $\frac{5}{12}$ (C) $\frac{1}{2}$ (D) $\frac{5}{9}$	
		(A) 1000 (B) 1250 (C) 1500 (D) 2000	()10.	The quadrangular pyramid goes from A to	C (The same vertex cannot
()5.	As shown. The undersurface diameter is $12 \ cm$. Find volume? (A) $216 \ \pi \ cm^3$ (B) $432 \ \pi \ cm^3$ (C) $648 \ \pi \ cm^3$ (D) $864 \ \pi \ cm^3$			(A) 6 ways (B) 7 ways (C) 8 ways (D) 9 ways	D

)11. The average scores of Classes A, B are a, b points. Quartile range is c, d., Which of the following is correct?

(A)	a >	b
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- 30 40 50 Average scores (points (B) a < b10 10 10 Class A (students) (C) c > d5 15 Class B (students) 5 (D) c < d
-)12. 1, 1, 2, 3, 4, *a*, 10, 11, *b*, *c*, 17, 19 (arranged from small to large) , If $Q_3 = 14$, The average is 8.5, Find a = ?
 - (A) 5
 - **(B)** 6
 - (C) 7
 - (D) 8
-)13. The average score for boys is 56 points. The average score for girls is 48 points. If the average score for whole class is 54 points. The number of boys : The number of girls is

(A) 1 : 1 **(B)** 2 : 1 (C) 3 : 1 (D) 3 : 2

-)14. The sum of the side length of the regular hexagonal prism is 96 cm. Regular hexagonal prism height is 10 cm. Find volume?
 - (A) $90\sqrt{3} \ cm^3$ (B) $135\sqrt{3} \ cm^3$ (C) $180\sqrt{3} \ cm^3$ (D) $225\sqrt{3} \ cm^3$
- The side length of the cube is 4 cm. Then the area of the $\triangle BDF$ is)15.



-)16. The vertex of $y=3x^2+12x+a$ is (m, n), IF m-n=6, Find a=?
 - (A) -4
 - **(B)** –2
 - (C) 2
 - (D) 4
-)17. The segment where $y = ax^2$, $y = bx^2$ and y = -4 intersect is $\overline{A_1A_2}$, $\overline{B_1B_2}$. The line segment where $y = cx^2$, $y = dx^2$ and y = 4 intersect is $\overline{C_1C_2}$, $\overline{D_1D_2}$. If $\overline{A_1A_2} > \overline{B_1B_2} > \overline{C_1C_2} > \overline{D_1D_2}$, Then (A) a > b > c > d(B) a > b > d > c(C) d > c > b > a(D) d > c > a > b
-)18. The shortest distance from point Ato point B is
 - (A) √113 **(B)** √117 (C) $\sqrt{125}$ (D) √137



-)19. The sum of the side lengths of the cuboid is 48 cm. The surface area is $80 \ cm^2$. The longest diagonal in the cuboid is
 - (A) 8 *cm* (B) $6\sqrt{2} \ cm$ (C) $4\sqrt{5}$ cm
 - (D) 9 cm
-)20. How many intersection points does $y = -3333(x+\sqrt{5555})^2 \sqrt{7777}$ and *x*-axis have?
 - (A) 0 points
 - (B) 1 points
 - (C) 2 points
 - (D) cannot be determined

()21.	There are two points $A(-2, a)$, $B(4, b)$ on $y = \frac{1}{2}x^2$. The area of the
		$\triangle AOB$ is
		(A) 8
		(B) 10
		(C) 12
		(D) 14
()22.	A: 68, $B:$ 45, Fill the number 1 to 9inin
		(A) $\frac{49}{81}$ (B) $\frac{50}{81}$ (C) $\frac{51}{81}$ (D) $\frac{52}{81}$
()23.	$y=ax^2+bx+c$ intersects the <i>x</i> axis at (-4, 0) and (2, 0). <i>First</i> moves right by <i>h</i> units. Then move up by <i>k</i> units. Let <i>y</i> pass through (0, 8) and (6, 8). Find <i>h</i> =?
		 (A) 3 (B) 4 (C) 5 (D) 6
()24.	As shown, (1) $a > b$ (2) $c > d$ (3) $ac > 0$ (4) $bd > 0$, How many items of the above are correct? $x+d D$
		(A) 1 item (B) 2 items (C) 3 items (D) 4 items $A \\ 55^{\circ} x \\ x+a \\ 55^{\circ} x \\ x+b \\ C$
()25.	$f(x) = ax^2 + bx + c$, vertex is (-2, 4). The $f(x)$ and x-axes intersect at point P, Q., and $\overline{PQ} = 2$, Find $f(0) = ?$
		(A) -12 (B) -20 (C) -32 (D) -36

-)26. There are 5 positive integers. The Average number is 4. The Median is 4. The Mode is 6. What is the difference between maximum and minimum?
 - (A) 3
 - **(B)** 4
 - (C) 5
 - (D) 6
-)27. At the same time throwing two fair dice to get *a*, *b* two points. The probability of a+b being a prime number is 13/36

(A) $\frac{13}{36}$ (B) $\frac{14}{36}$ (C) $\frac{15}{36}$ (D) $\frac{16}{36}$

-)28. There are 64 consecutive integers and the sum is 2^{10} , Find Median = ?
 - (A) 8(B) 12
 - (C) 16
 - **(D)** 20
-)29. $\triangle ABC$ is an isosceles triangle, $\overline{AB} = \overline{AC} = 10$, $\overline{BC} = 8$, If $\triangle ABC$ $\sim \triangle ADE \sim \triangle BCE$. Find $\overline{DE} = ?$ (A) $\frac{72}{25}$ (B) $\frac{70}{25}$ (C) $\frac{60}{25}$ (D) $\frac{45}{25}$
-)30. As shown, The boxplots of classes A and B. Which of the following is wrong?
 - (A) Range A > B
 - (B) Median A > B
 - (C) Average A > B
 - (D) Quartile range A > B



Γ			,							Score / 100
		Student ID The Seven	th	Gra	de	Set	t 2	Time	Allowed :3 minute	s
()1.	If the side $ ength $ of the square becomes three times the original. The perimeter will be <i>A</i> times the perimeter of the original square. The area will become <i>B</i> times the area of the original square. Find $A + B =$? (A) 6 (B) 9 (C) 12 (D) 15	()6.	The un baselin the hei (A) 6 c (B) 12 (C) 18	ndersum ne is 15 ight of cm cm cm cm	rface o 5 cm, t this tra	f a trap he heig apezoic	ezoidal prism, ght is 10 cm. If dal prism?	the topline is 8 cm, the its volume is 1380 cm3, Find
()2.	As Shown, The midpoint of each side of the quadrilateral <i>ABCD</i> are <i>P</i> , <i>Q</i> , <i>R</i> , <i>S</i> . If $\overline{AC} = 8 \text{ cm}$. $\overline{BD} = 14 \text{ cm}$. Find the perimeter of the quadrilateral <i>PQRS</i> ? (A) 20 cm (B) 22 cm (C) 24 cm (D) 26 cm	()7.	 (D) 24 (D) 24 (A) pa (B) red (C) rh (D) iso 	cm quadr rallelo ctangle ombus osceles	rilatera gram e s trapez	l diago zoid	nal is must be o	equal and bisect to each other?
()3.	The science of numbers. (A) Addition (B) Arithmetic (C) Subtraction (D) Quotient	()8.	Find th (A) 15 (B) 12 (C) 10	$\frac{\pi}{\pi} + 6 c$ $\frac{\pi}{\pi} + 6 c$	meter cm cm	of the s	shadow area'?	9 cm
()4.	Each soap costs x donars. Each box costs is 15 donars. There are 12 soaps loaded into the box. How much is the cost per box of soap? (A) $12x$ dollars (B) $(15+12x)$ dollars (C) $(15x+12)$ dollars	()9.	(D) 8 7 In whi (A) In (B) In	x + 6 cr ch plac the on	n ce valu ies	e is the	e number 7 in t	the number $675?$
()5.	(C) (13 x +12) dollars (D) 27 x dollars The radius of the circle O is 18 cm. Then The fan-shaped area with a central angle of 300° is several times the fan-shaped area with a central angle of 60°?	()10.	(C) In (D) No It is kr $= \overline{CD}$	the hu one of nown th =6 cm	indreds these hat iso . Conn	s sceles t ecting	trapezoid <i>ABC</i> the midpoints o	<i>D</i> has two lateral sides \overline{AB} on two lateral sides the length
		(A) 3 times(B) 4 times(C) 5 times(D) 6 times			is 9 cn (A) 26	n. Find	l the pe (B) 2	erimete 8 cm	r of an isoscele (C) 30 cm	es trapezoid <i>ABCD</i> ? (D) 32 cm



Γ					Score / 100
		Student ID The Nint	th C	Grad	Set 2 Time Allowed :3 minutes
()1.	The arithmetic mean of the two integers a and b is 5. One of the geometric mean is 4. Find $a^2+b^2=?$ (A) 78 (B) 70 (C) 68 (D) 60	()6.	If 20, 50, 100 are added to the same number, they will be in a geometric series. What is this number? (A) 16 (B) 20 (C) 25 (D) 45
()2.	There is a geometric series with a total of 9 terms. The first term is 2. The 3rd term is 8. If the common ratio is negative. What is the sum of the geometric series? (A) 342 (B) 1022 (C) -174 (D) -582	()7.	There is an arithmetic sequence with a total of 20 terms. The sum of the first 4 terms is 72. The sum of the last 4 terms is 1096. What is the common difference? (A) 16 (B) 12 (C) 18 (D) 24
()3.	The family population of 10 students in a class is as follows: 8, 4, 4, 5, 4, 9, 9, 8, 5, 4; If the Arithmetic Mean is <i>A</i> , the Median is <i>B</i> , the Mode is <i>C</i> , Find $A + B + C = ?$ (A) 12 (B) 15 (C) 16 (D) 18	()8.	It is given that <i>m</i> : <i>n</i> = 2 : 7 and <i>n</i> – <i>m</i> = 45. Find the value of <i>m</i> ? (A) 10 (B) 18 (C) 35 (D) 63
()4.	If there is no relationship between the various types of statistics, and we want to compare them, which of the following statistic chart is required? (A) bar chart (B) histogram (C) line chart (D) pie chart	()9.	 (D) 00 It is known that the 15th term of an arithmetic sequence is -25. The 32nd term is -42. Find the 25th term? (A) -34 (B) -35 (C) -36 (D) -37
()5.	In a Igroup of numerical data. The most frequently occurring value is called the (A) Arithmetic Mean (B) Median (C) Mode (D) All above	()10.	 Throwing two dice twice, what is the probability that the numbers will be the same? (A) 1/5 (B) 1/6 (C) 1/3 (D) 1/4