

NAN HUA PRIMARY SCHOOL END-OF-YEAR EXAMINATION PRIMARY 5

MATHEMATICS
PAPER 1
(BOOKLET A)

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-15.
- 6. The use of calculators is NOT allowed.

Name		()
Class	i : 5		
	Parent's Signature		

}

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet (OAS). (20 marks)

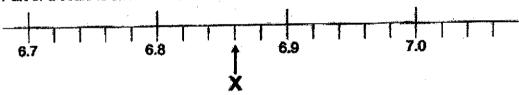
Arrange the following fractions from the smallest to the largest:

$$\frac{3}{2}$$
, $\frac{6}{5}$, $\frac{1}{7}$

Smallest Largest

- (1) $\frac{3}{2}$, $1\frac{1}{7}$, $\frac{6}{5}$
- (2) $\frac{3}{2}$, $\frac{6}{5}$, $1\frac{1}{7}$
- (3) $\frac{6}{5}$, $\frac{3}{2}$, $1\frac{1}{7}$
- (4) $1\frac{1}{7}$, $\frac{2}{6}$, $\frac{3}{2}$

2. Part of a scale is shown below. What is the value of the reading at X?



- (1) 6.83
- (2) 6.86
- (3) 6.88
- (4) 7.10

3. Find the value of $40 + 4 \times (8-6)$.

- (1) 5
- (2) 20
- (3) 36
- (4) 74

4. The diagram shows a calculator.
Which of the following could be the mass of this calculator?



- (1) 1 g
- (2) 10 g
- (3) 100 g
- (4) 1000 g

5. In a school, the ratio of the number of boys to the number of girls is 5 : 9. What is the ratio of the number of girls to the total number of children in the school?

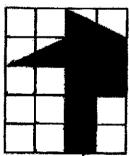
- (1) 5:9
- (2) 5:14
- (3) 9:5
- (4) 9:14

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6. A picture is drawn on a square grid.



What percentage of the square grid is shaded?

- (1) 8%
- (2) 16%
- (3) 40%
- (4) 60%

(

)

(

7. The opening hours of a shop are shown below. How long does the shop open

each day?

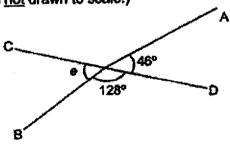


- (1) 3 h 15 min
- (2) 3 h 45 min
- (3) 9 h 15 min
- (4) 9 h 45 min

8. Express $\frac{3}{8}$ as a decimal.

- (1) 0.125
- (2) 0.375
- (3) 0.625
- (4) 0.875

In the figure below, CD is a straight line. Find ∠e.
 (The figure is not drawn to scale.)



- (1) 46°
- (2) 52°
- (3) 58°
- (4) 134°

10.

Electric scooter for Rent

First hour:

\$12

Every additional $\frac{1}{2}$ hour:

\$4



Miss Lim rented a scooter for 3 hours. How much did she pay?

- (1) \$16
- (2) \$20
- (3) \$24
- (4) \$28

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)

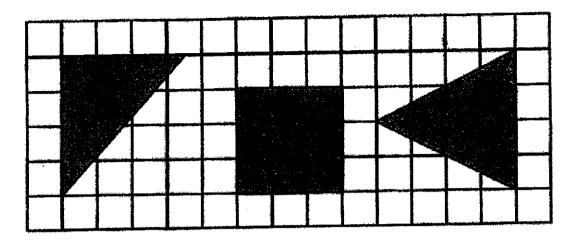
11. Highlighters are only sold in packets of 6. Each packet is sold at \$9.
Mrs Tan has \$50. How many highlighters can she buy at most?



- (1) 30
- (2) 33
- (3) 35
- (4) 36

(

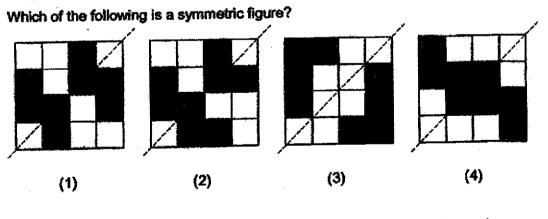
12. In the square grid below, A is a right-angled triangle, B is a square and C is another triangle. Arrange A, B and C from the largest to the smallest area.



ļ	<u>Largest</u>		<u>Smallest</u>
(1)	A,	₿,	С
(2)	A,	C,	В
(3)	В,	C,	Α
(4)	C,	A,	В

13. Each figure below is made up of 16 squares.

8 squares in each figure are shaded.



14. The table below shows the number of students in a Primary 5 class. Some of the information is missing.

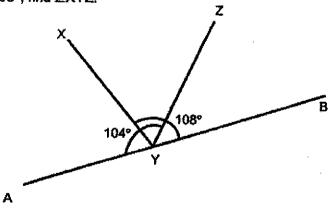
	With CCA	Without CCA	Total
Boys	10	(,	
Girls	15	3	20
Total	25	11	36

Based on the given information, what is the ratio of the number of girls without CCA to the number of boys without CCA in the Primary 5 class?

- (1) 5:6
- (2) 6:5
- (3) 5:11
- (4) 6:11

()

15. In the figure below, AYB is a straight line. Given that ∠AYZ = 104° and ∠XYB = 108°, find ∠XYZ.



- (1) 76°
- (2) 72°
- (3) 32°
- (4) 4°



NAN HUA PRIMARY SCHOOL END-OF-YEAR EXAMINATION PRIMARY 5

MATHEMATICS PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and Index number in the space provided.
- 2. Do not turn over the 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. The use of calculators is **NOT** allowed.

Marks Obtained

Paper 1	Booklet A	
	Booklet B	/45
Paper 2		/ 55
Total		/ 100

Name		(
Class	• §		

Que: For c	stions 16 to 20 carry 1 mark each. Write your questions which require units, give your answ	answers in the spaces pro ers in the units stated. (5	wided. marks)	Do not write in this space
16.	Express 1005 grams in kilograms.			
		Ans:	kg	
17.	What is the missing number in the box?		ور در	
	$\frac{8}{12} = \frac{\square}{9}$			
		Ans:		
18.	The solid figure below is made up of unit or What is the volume of the solid figure?	ibes.		,
	i cm	·		
		Ans:unit c	zubes	
			Subtotal	/3

19.	Find the value	of 2.3 × 200.					Do not write in this space
				Ans:			
20.	The table below	v shows Caili's	scores for 4	games she p	olayed.		
	Game	1	2	3	4		
	Score	5	0	9	10		
	Find the averag	e score for the	e 4 games sh	e plaved.	<u> </u>		
	_		J				
				Ans:	· · · · · · · · · · · · · · · · · · ·		
					,		
• _						Subtotal	/ /2

Ti	ne fiç	jure	below	shov	vs Cul	ooid /	A. Dra	w a	xiodux	with	a vol	ime	wice	that	
ř	Cut	oid /	A on th	ne iso	metri	c grid	prov	ided.							
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Subtotal

23. (a) Find the value of $\frac{3}{4} - \frac{2}{5}$.

Do not write in this space

Give your answer in the simplest form.

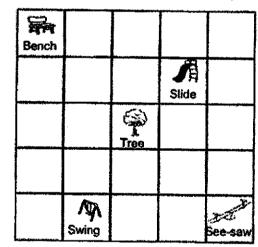
(b) Find the value of $\frac{9}{10} \times \frac{2}{3}$.

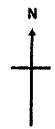
Give your answer in the simplest form.

Ans: (a) _____

(b) _____

24. The square grid below shows the plan of a playground in a school.





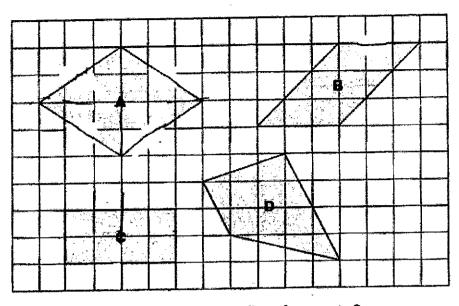
- (a) Which object is North-East of the Tree?
- (b) Which direction is the Swing from the See-saw?

Ans: (a)

(b)_____

Do not write In this space

25. Four figures, A, B, C and D are drawn on a square grid.



Which 2 figures have more than one line of symmetry?

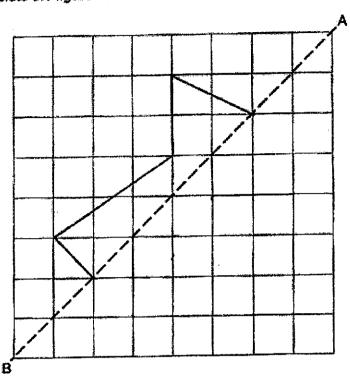
		1	
Ans: Figures	&	1	

- 26. (a) Express 5% as a decimal.
 - (b) Express 12 minutes as a percentage of 1 hour.

Ans: (a)	<u> </u>	
(b)	<u></u> %	
	Subtotal	14

	10 last month. Her mother decide	a wysie n	ei as ini eacili	Do not wri
\$10 she saved.	How much dld Faith's mother given	ve her?		in this spa
		0		
	A	ns: \$		
The table below	shows the rate of parking charge	s in a carp	ark.	
	Parking Charges	_	7	
First hour	Tarming Orienges	\$1.30		
		\$1,30		
				ľ
Every subsequ	ent 30 minutes or part thereof	\$0.80		
Every subsequ	ent 30 minutes or part thereof	\$0.80		
	ent 30 minutes or part thereof s car in the carpark from 3 p.m. to	<u> </u>		
	s car in the carpark from 3 p.m. to	<u> </u>		
Daniel parked his	s car in the carpark from 3 p.m. to	<u> </u>		
Daniel parked his	s car in the carpark from 3 p.m. to	<u> </u>		
Daniel parked his	s car in the carpark from 3 p.m. to	<u> </u>		
Daniel parked his	s car in the carpark from 3 p.m. to	<u> </u>		
Daniel parked his	s car in the carpark from 3 p.m. to	<u> </u>		
Daniel parked his	s car in the carpark from 3 p.m. to e pay?	<u> </u>		
Daniel parked his	s car in the carpark from 3 p.m. to e pay?	5.20 p.m.		
Daniel parked his	s car in the carpark from 3 p.m. to e pay?	5.20 p.m.		
Daniel parked his	s car in the carpark from 3 p.m. to e pay?	5.20 p.m.	Subtotal	

29. Complete the figure below such that line AB is the line of symmetry.



Do not write in this space

30. Some teachers and students from Glory Childcare Centre went on a field trip. There were 12 teachers in each group of 20 students.
There were 48 more students than teachers.
How many students went on the field trip?

Δne·	<u> </u>

- End of Paper 1 -

Subtotal	14



NAN HUA PRIMARY SCHOOL END-OF-YEAR EXAMINATION PRIMARY 5

MATHEMATICS Paper 2

Total Time for Paper 2: 1 hour 30 minutes

INSTRUCTION TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the 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. The use of an approved calculator is expected, where appropriate.

Marks Obtained

Total	Max Mark
	55

Name:)
Class: 5		
	Parent's Signature :	

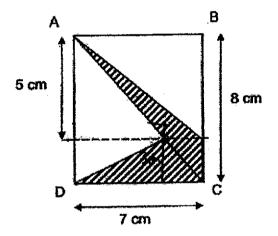
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

1. In an aquarium, there were 1080 goldfish and guppies. The ratio of the number of guppies to the number of goldfish was 5 : 4. How many goldfish were left after 30 goldfish were sold?

∖ns:	 		

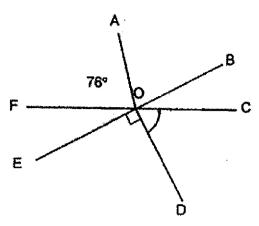
ABCD is a rectangle. Find the area of the shaded part.



Ans:	cm²	
•	Subtotal	14

In the figure below, not drawn to scale, BE and CF are straight lines.
 ∠AOF = ∠AOB. Find ∠COD.

Do not write in this space



Ans:		,

4. Glenda bought some flowers for her teachers on Teachers' Day. If she gave each teacher 4 flowers, there were 3 flowers left over. If she gave each teacher 6 flowers, she would be short of 1 flower. What was the smallest possible number of flowers that Glenda had?

Subtotal

5. Mr Faizal cycles $7\frac{2}{5}$ km at a nearby park connector every weekend. His wife cycles 4 km less than him. What is the total distance that both of them cover together?

Do not write in this space

Ans: ____km

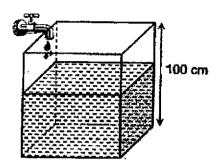
Subtotal

/ 2

For questions 6 to 17, show your working clearly 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)

Do not write in this space

- 6. The figure below shows a cubical tank which is $\frac{3}{5}$ -filled with water.
 - (a) What is the volume of water needed to fill up the tank to the brim?
 - (b) Water is added to the tank at a rate of 4 litres per minute. At this rate, how long will it take to fill the tank completely?

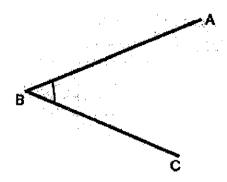


	Subtotal	/3
(0)		
(b)	[1]	
Ans: (a)	[2]	

	e usual price of a toaster was \$260.	During a sale, a discount o	f 10%	Do no in this
	as given.			
(a	How much was the discounted price	ii i= Unumer ha alea h	ad to	
(b	Mr Tan bought the toaster during the	e sale. However, no also in	au for	
	pay a GST of 7% on the discounted	price. How much did no p	ay ioi	
	the toaster?			,
	•			
		Ans: (a)	11]	
			·	
		(b)	[2]	
			ļ	
Th	e table below shows the charges for	water usage.	3	
	volume followates:	Charge		
		A473		
-	First 40 m ³	\$1.17 per m ³		
	Above 40 m ³	\$1,40 per m ³]	
•	s Lee's family used 66 m ³ of water in	September. How much did	i her	
fai	nily pay for the water used?			
				·
			į	ł
		Ans:	[3]	
		Ans:	[3]	

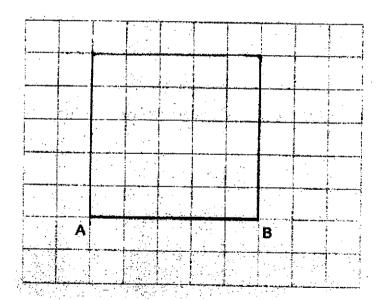
9. (a) In the space below, AB and BC are straight lines. Measure ∠ABC.

Do not write in this space



Ans: (a) _____[1]

(b) On the square grid below, AB is a straight line. Draw a square ABCD. [2]



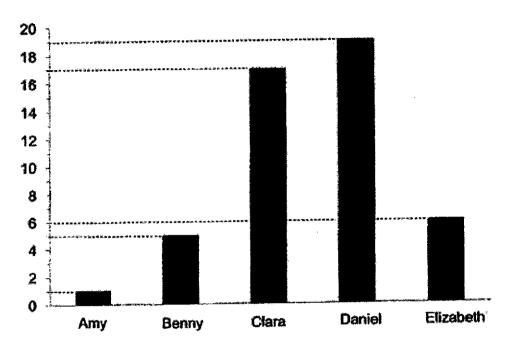
Subtotal	/3

10.	The average mass of 3 children, Xavier, Jeremy and Zen, is 54 kg. Xavier is 60 kg. Jeremy and Zen are of the same mass. How heavy is Zen?	in this space
		,
	Ans:[3]	
11.	Alex had twice as many marbles as Benjamin at first. Alex then gave away 33 marbles to another friend. Alex now has 16 more marbles than Benjamin.	
	(a) How many marbles does Alex have now? (b) How many marbles did Alex and Benjamin have at first?	
	•	
-		
	Ans: (a)[2]	
	(b)[2]	
	Subtotal	/7

12.	Jimmy started saving part of his pocket money by putting 2 coins in a money box every day. Each coin was either a 20¢ or 50¢ coin. His mother also put in a \$1 coin in the box every 7 days. The total value of the coins after 98 days was \$82.30.	Do not write in this space
	(a) How many coins were there altogether? (b) How many of the coins were 50¢ coins?	

13. The graph below shows the number of stickers bought by 5 children.

Do not write in this space



- (a) What is the total number of stickers bought by the 5 children?
- (b) What percentage of all the stickers are bought by Elizabeth?

ns:	(a)	[2]
	<i>I</i> I\	rei

14. Auntie Lucy baked 128 pies and some cookies. She gave away $\frac{3}{8}$ of her pies and $\frac{2}{7}$ of her cookies. She had 155 cookies left.

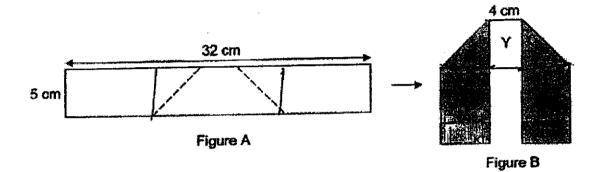
Do not write in this space

- (a) How many pies did she give away?
- (b) How many cookies did she give away?

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

15. Figure A shows a rectangular piece of paper 32 cm by 5 cm which is coloured on one side. It is folded along the dotted line to form Figure B. Do not write in this space

- (a) Find the area of the rectangular piece of paper.
- (b) Find the total area of X, Y and Z in Figure B.



Ans: (a) [1]

Do not write in this space

The first four figures of a pattern are shown below. 16.

Figure 1

Figure 2

Figure 3

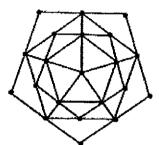


Figure 4

The table shows the number of dots and the number of non-overlapping triangles for each figure.

Figure number	Number of dots	Number of non- overlapping triangles
1	6	5
2	11	10
3	16	20
4	21	25
5	(<u>i</u>)	(ii)

- (a) Fil in the table for Figure 5.
- (b) What is the number of dots in Figure 10?
- (c) In which Figure number will there be 108 dots?

Ans: (a) (i <u>)</u>	[1]
(ii)	[1]
(b)	[1]
(c)	[2]

	,	 	
١			
I		-	
L		į	

17.	The	re were 38 pupils in a class. Each of them contributed \$10 towards a	Do not write in this space
		rity drive. The form teacher contributed \$70.	
	$\frac{2}{5}$ of	the total amount contributed was sperit on buying food items.	
	9	the remainder was spent on stationery.	
	Afte	r spending some money on toiletries, there was \$93 left.	بدان مؤود از استار الم
	(a)	What was the total amount contributed?	
	(b)	How much was spent on toiletries?	
	-5.71		
	ens.		
	gr.h.		
	-model		
		\cdot	
		Ans: (a)[2]	
		(b)[3]	
		End of Paper 2	

SCHOOL :

NAN HUA PRIMARY SCHOOL

LEVEL

PRIMARY 5

SUBJECT:

MATH

TERM

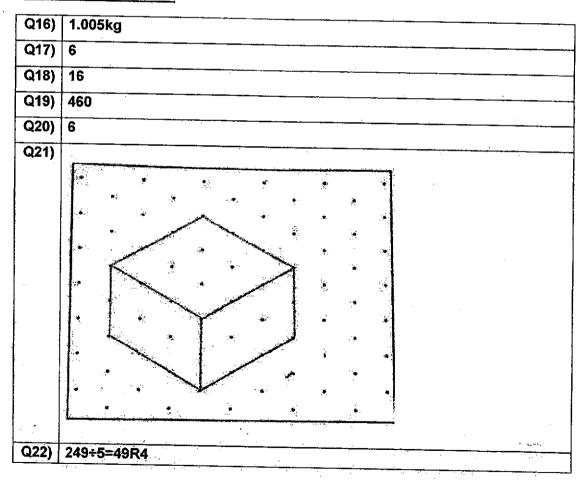
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PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
1	3	2	1	3

PAPER 1 BOOKLET B



Pg1

	49+1=50
1	Ans:50
Q23)	a) 7/20
_,	b) 3/5
Q24)	a) Slide
	b) West
Q25)	A&C
Q26)	a) 0.05
	b) 20%
Q27)	240÷10=24
	24x2=48
	Ans: \$48
Q28)	0.8x2=1.6 1.3+1.6=2.9
	2.9+0.8=3.7
	Ans: \$3.70
020)	
Q29)	
1	
ļ	
1	
Q30	20-12=8
Q3U	48÷8=6
	6x20=120
1	Ans:120 students
<u> </u>	

PAPER 2

		
Q1)	guppies:goldfish 5:4 Total→ 9u 1u→ 1080÷9=120 4u → 120x4=480	
	480-30=450 Ans: 450 goldfish	
Q2)	8-5=3 1/2x3x3=10.5 1/2x3x3=10.5 10.5x2=21	
	Ans: 21cm	

(02)	70.70 480
Q3)	76+76=152 180-152=28
	152+28+28+90=298
	360-298=62
	Ans:62°
Q4)	4+3=7
	6-1=5
	4 1156
	1 1100
	X
	40 -1
	Ans: 11
Q5)	_22
G(O)	$7\frac{2}{5} - 4 = 3\frac{2}{5}$ $7\frac{2}{5} + 3\frac{2}{5} = 10\frac{4}{5}$
	$7\frac{2}{5} + 3\frac{2}{5} = 10\frac{4}{5}$
	Ans: 10 ⁴ / _s km
	3
Q6)	a)
· •	$1 - \frac{3}{5} = \frac{2}{5}$
	$1 - \frac{3}{5} = \frac{2}{5}$ $100 \times \frac{2}{5} = 40$
	$100 \times 100 \times 40 = 400000$
	400000mℓ of water is needed to fill up the tank.
	b) 400000 ÷ 4000 = 100
	It will take 100 minutes for the tank to be filled completely.
Q7)	a)
	100% → 260
	10% → 260 ÷ 10 = 26
	= 26 200 – 26 = 324
	The discounted price was \$234.
	The discounted price was \$234.
	b)
	100% → 234
	7% → 234 ÷ 100 x 7
	= 16.38
	234 + 16.38 = 250.38

	He paid \$250.38 for the toaster.
O8)	66 – 40 = 26
	1.17 x 40 = 46.80
	1.4 x 26 = 36.40
	46.80 + 36.40 = \$83.20
Q9)	a)
ασ,	45°
	b)
İ	DC
	A B
	54 x 3 = 162
Q10)	162 - 60 = 102
	102 ÷ 2 = 51
	Zen is 51kg
Q11)	
	A 16 33
	В
1	
	a)
	33 + 16 = 49
Ì	49 + 16 = 65 Alex has 49 marbles.
	Alex has 45 marbles.
	h.)
	b) 49 x 3 = 147
	They have 147 marbles at first.
040	
Q12)	a) No. of 1 dollar coins = 98 ÷ 7
1	= 14
	No. of $20¢$ and $50¢ = 98 \times 2$
	= 196
	196 + 14 = 210.
	There were 210 coins.

	b) Value of 20¢ and 50¢ = 82.30 – 14 = 68.30					
	20¢	Cost	50¢	Cost	Total	44
	98	98 x 0.20 = 19.6	98	98 x 0.50 = 49	19.6 + 49 = 68.60	X
	99	99 x 0.20 = 19.8	97	99 x 0.50 = 48.5	19.8 + 48.5 = 68.30	1
	97 of the coins were 50¢ coins.					
Q13)	a) 1 + 5 + 17 + 19 + 6 = 48					
	The total number is 48.					
	, h					
	b) 100% → 48					
	1% → 48 ÷ 100					
	= 0.48 6 ÷ 0.48 = 42.59					
	6 ÷ 0.48 = 12.5% 12.5% are bought by Elizabeth.					
Q14)	a)					
TT gas	8U → 128					
	1U → 128 ÷ 8 = 16					
	3U → 16 x 3					
`\$.n~~`	= 48					
	She gave away 48 pies.					
·	b)					
	5U → 155					
	· 1U → 155 ÷ 5 = 31					
	2U → 31 x 2					
	= 62					
Q15)	She gave away 62 cookies.					
	32 x 5 = 160					
	The area is 160cm ²					
	b)					
	32 - 4 = 28 9 × 5 = 45					
	$9 \times 5 = 45$ $45 \times 2 = 90$					
	$\frac{1}{2}$ x 5 x 5 =	12.5				

