

### NAN HUA PRIMARY SCHOOL END-OF-YEAR EXAMINATION - 2021 PRIMARY 5

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.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-15.
- 6. The use of calculators is **NOT** allowed.

Name :		}
Class:5_		
Data - 28 C	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:

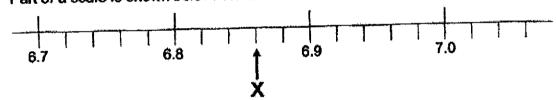
$$\frac{3}{2}$$
,  $\frac{6}{5}$ ,  $\frac{1}{7}$ 

Smallest Largest

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

( )

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

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



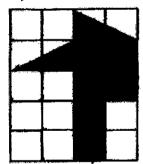
- (1) 1 g
- (2) 10 g
- (3) 100 g
- (4) 1000 g
- 5. In a school, the ratio of the number of boys to the number of girls is 5:9. What is the ratio of the number of girls to the total number of children in the school?
  - (1) 5:9
  - (2) 5:14
  - (3) 9:5
  - (4) 9:14

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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?

### The Automobile Shop

Open Daily

9.15 a.m. to 6.30 p.m.

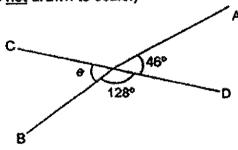


- (1) 3 h 15 min
- (2) 3 h 45 min
- (3) 9 h 15 min .
- (4) 9 h 45 min

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°

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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?



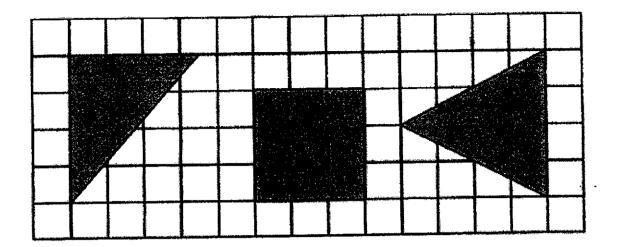
- (1) 30
- (2) 33
- (3) 35
- (4) 36

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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,	В,	С
(2)	A,	C,	8
(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.

Which of the following is a symmetric figure?

(1)

(2)

(3)

(4)

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

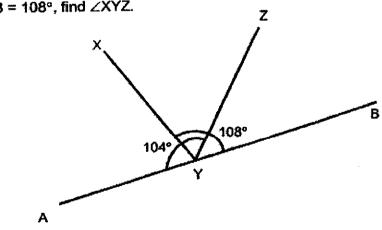
	With CCA	Without CCA	Total
Boys	10		
Girls	15	5	20
Total	25	. 11	36

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  $\angle$ AYZ = 104° and  $\angle$ XYB = 108°, find  $\angle$ XYZ.



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

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### NAN HUA PRIMARY SCHOOL END-OF-YEAR EXAMINATION – 2021 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.

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

Name		(
Class	: 5	
Date :	28 October 2021	

Que: For c	stions <b>16</b> to <b>20</b> carry 1 mark each. Write your questions which require units, give your answer	answers in the spaces provided. ers in the units stated. (5 marks	Do not write in this space
16.	Express 1005 grams in kilograms.		
		Ans:kg	
17.	What is the missing number in the box?		e de la companya de l
	$\frac{8}{12} = \frac{\square}{9}$		
		Ans:	
18.	The solid figure below is made up of unit or What is the volume of the solid figure?	ubes.	
	1 cm	Ans: unit cubes	
		Subto	tal /3

Game 1 Score 5	0	r 4 games she j 3	olayed.		
Game 1 Score 5	0	r 4 games she j 3	played.		
	0	r 4 games she j 3	played.		
Game 1 Score 5	0	r 4 games she j 3	played.		
Game 1 Score 5	0	9			
Game 1 Score 5	0	9			
Score 5	0	9	10		
			10		
Find the average score	for the 4 games	she played			
		orio biratori			
				at response	
				,	
		Ans: _	<u> </u>	<del></del>	<u> </u>
				11.7 2.7	

Do not write Questions 21 to 30 carry 2 marks each. Show your working clearly and write your in this space answers in the spaces provided. For questions which require units, give your (20 marks) answers in the units stated. The figure below shows Cuboid A. Draw a cuboid with a volume twice that 21. of Cuboid A on the isometric grid provided. 1 unit 3 units 3 units Cuboid A Sally bought a roll of stickers with pictures as shown in the following 22. sequence. The roll of stickers has 249 stickers. How many of her stickers have the picture of an apple,

Ans:

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  $\frac{9}{10} \times \frac{2}{3}$ .

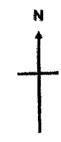
Give your answer in the simplest form.

Ans: (	a)	
***		

4. 3	
(b)	L

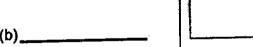
24. The square grid below shows the plan of a playground in a school.

Bench				
			Slide	
		())-Tree		
	A) Swing			36 See-saw



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

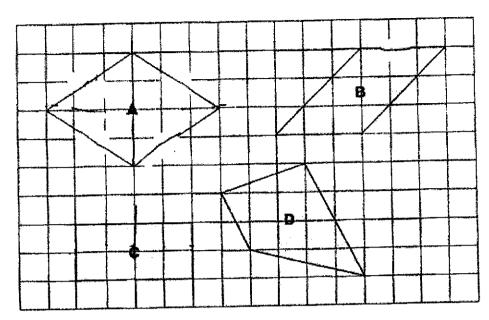
Ans: (a)	
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Subtotal	4	14
30510401	7	

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

Do not write in this space



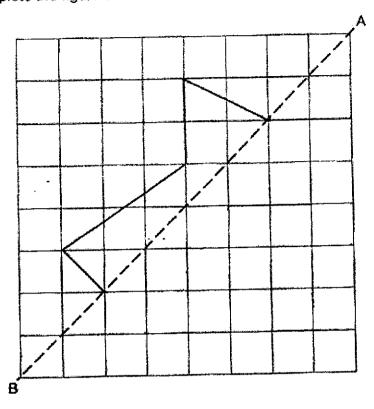
Which 2 figures have more than one line of symmetry?

Ans:	Figures	&		ĺ
			,	١

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

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

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



Do not write in this space

 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?

A			

- End of Paper 1 -

Subtotal	14



### NAN HUA PRIMARY SCHOOL END-OF-YEAR EXAMINATION - 2021 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	
Date: 28 October 2021	Parent's Signature :

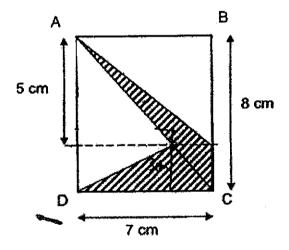
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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?

'Ans: \_\_\_\_\_

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

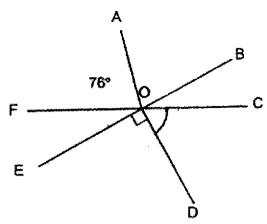


Ans: \_\_\_\_\_cm²

Subtotal

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?

Ans: \_\_\_\_\_

Subtotal

5. Mr Faizal cycles 7<sup>2</sup>/<sub>5</sub> 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

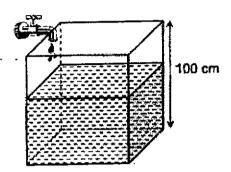
Ans: \_\_\_\_kn

Subtotal

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?

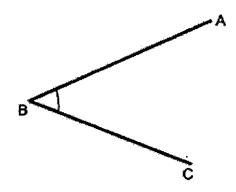


	Subtotal	1
(b)	[1]	
Ans: (a)		
	Į.	

7.	The usual price of a toaster was \$260. Downwas given.	Ouring a sale, a discount of '	10%	Do not write in this space
	(a) How much was the discounted price?	<b>?</b>		
	(b) Mr Tan bought the toaster during the		d to	
	pay a GST of 7% on the discounted price. How much did he pay for			
	the toaster?			
		_	,	
		·		
			and the second s	
		Ans: (a)	[1]	
		(b)	[2]	
	the state of the second st	- \$ - in - <b>- in in Mark</b>		
8.	The table below shows the charges for w			
	Volume of water	Charge		
	First 40 m <sup>3</sup>	\$1.17 per m³		
	Above 40 m <sup>3</sup>	\$1.40 per m <sup>3</sup>		
	Mrs Lee's family used 66 m <sup>3</sup> of water in 5 family pay for the water used?	September. How much did l	ner	
				į
				Martin Company of the
		Ans:	[3]	
			Subtotal	/6
				, ,

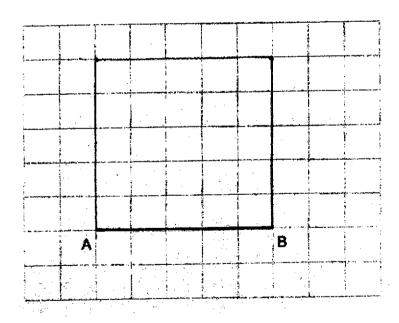
9. (a) In the space below, AB and BC are straight lines. Measure ∠ABC.

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

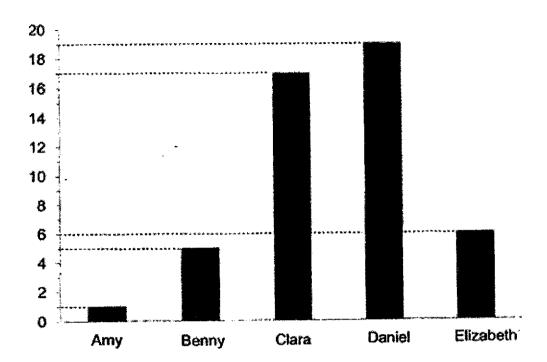
10.	The average mass of 3 children, Xavier, Jeremy and Zen, is 54 kg. Xavie	eris ¦	Do not write in this space
	60 kg. Jeremy and Zen are of the same mass. How heavy is Zen?		
		y physical control of the control of	
	Ans:	[3]	
		101	
44	Alex had twice as many marbles as Benjamin at first. Alex then		
11.	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?		
	(b) How many marbles did Alex and benjamin have at mare		
	$\cdot$		
		•	
	Ans: (a)	[2]	
	(b)	[2]	
		ubtotal	17

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.  (a) How many coins were there altogether?  (b) How many of the coins were 50¢ coins?	Do not write in this space
	Ans: (a)	

\_\_\_\_[2]

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]	ſ
	(b)	[2]	

[2]

[2]

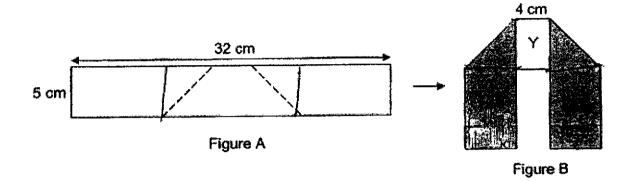
Do not write Auntie Lucy baked 128 pies and some cookies. in this space 14. She gave away  $\frac{3}{8}$  of her pies and  $\frac{2}{7}$  of her cookies. She had 155 cookies left. (a) How many pies did she give away? (b) How many cookies did she give away?

Ans: (a)\_

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]	
(b)	[3]	

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



Figure 1

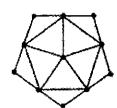


Figure 2

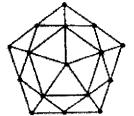


Figure 3

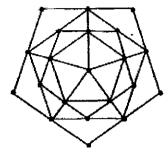


Figure 4

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	(i)	(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 106 dots?

Ans: (a) (i)	11
(ii)	1]
(b)	[1]
(c)	[2]

	 	_
١		1
l		1
1		7

17.	There we	ere 38 pupils in a	class.	Each of th	em contribu	ted \$10 towa	ırds a	Do not write in this space
		rive. The form tea						
	$\frac{2}{5}$ of the	total amount cont	ributed	was spen	t on buying	food items.		
	_	remainder was sp						
	After spe	ending some mon	ey on t	oiletries, th	nere was \$9	3 left.		
	(a) Wh	nat was the total a	mount	contribute	d?			
	(b) Ho	w much was spe	nt on to	iletries?				
	-							
						,		
** *								
		(Carallel of the Carallel of t						
					Ans: (a)		[2]	l l
					(b)		[3]	
			End.	of Daner 🤅	, <u></u>			•

SCHOOL :

NAN HUA PRIMARY SCHOOL

LEVEL :

**PRIMARY 5** 

SUBJECT:

MATH

TERM :

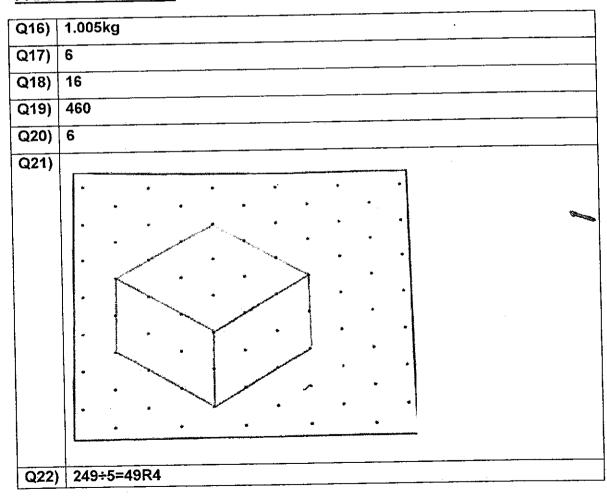
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### PAPER 1 BOOKLET A

Q 1	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



	49+1=50
	Ans:50
Q23)	a) 7/20
Q20,	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
Q29)	Ails. \$5.70
Q30)	20-12=8 48÷8=6 6x20=120 Ans:120 students

## 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	

1
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1
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•

	He paid \$250.38 for the toaster.						
Q8)	66 - 40 = 26						
	$1.17 \times 40 = 46.80$						
	$1.4 \times 26 = 36.40$						
	46.80 + 36.40 = \$83.20						
Q9)	a) ·						
	45°						
	•						
	b)						
	A						
	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						
	49 + 16 = 65						
	Alex has 49 marbles.						
	b) 49 x 3 = 147						
	They have 147 marbles at first.						
Q12)							
(412)	a) No. of 1 dollar coins = 98 ÷ 7						
1	= 14						
	No. of 20¢ and 50¢ = 98 x 2						
	= 196						
	196 + 14 = 210. There were 210 coins.						
-	There were a re-						

b) Value of 20¢ and 50¢ = 82.30 – 14
= 68.30

20¢	Cost	50¢	Cost	Total	√IX
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	<b>√</b>

97 of the coins were 50¢ coins.

Q13) a

$$1 + 5 + 17 + 19 + 6 = 48$$

The total number is 48.

b)

a)

100% → 48

1% → 48 ÷ 100

= 0.48

 $6 \div 0.48 = 12.5\%$ 

12.5% are bought by Elizabeth.

Q14)

8U → 128

1U → 128 ÷ 8

**= 16** 

3U → 16 x 3

= 48

She gave away 48 pies.

b)

5U → 155

1U → 155 ÷ 5

= 31

2U → 31 x 2

= 62

She gave away 62 cookies.

Q15)

l a)

 $32 \times 5 = 160$ 

The area is 160cm<sup>2</sup>

b)

32 - 4 = 28

 $9 \times 5 = 45$ 

 $45 \times 2 = 90$ 

 $\frac{1}{2}$  x 5 x 5 = 12.5

