

# END-OF-YEAR EXAMINATION 2024

# PRIMARY 3

## **MATHEMATICS**

Duration: 1 hour 30 minutes

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# **INSTRUCTIONS TO STUDENTS**

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Write your answers in this booklet.

Name:		(	)
Class: Primary 3 (	)		
Parent's Signature:			

MCQ	/5
SAQ	/ 28
LAQ	/ 17
Total	/ 50

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

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Que One	estions of the	hoice Questions (MCQ) 1 to 5 carry 1 mark each em is the correct answer er (1, 2, 3 or 4) in the br	n. For each question, four options are . Make your choice (1, 2, 3 or 4) and acket ( ) provided.	d write
	<u> </u>		- (5 r	narks
1.	Wha	at is three thousand, six	hundred and six written as a numeral?	>
	(1)	3066		
	(2)	3366		
	(3)	3606	. , .	
	(4)	3660		
			(	)
2.	Wha	t is the missing number	in the equation below?	
	7023	3 = 7000 + ? +	3	
	(1)	203	-	
	(2)	200		
	(3)	23		

(4)

20

(

3. Arrange the fractions in order from the greatest to the smallest.

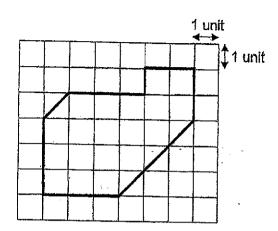
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G	reates	<u>t</u>		S	mallest
(1)	<u>5</u>	ı	1/2	,	<del>2</del> 8
(2)	<u>5</u> 7	Ċ	<u>2</u> 8		<u>1</u>
(3)	<u>2</u> 8	ý	1/2		<u>5</u>
(4)	<u>2</u> 8	э	<u>5</u>		1 2

4. Express 2080 g in kilograms and grams.

- (1) 2 kg 8 g
- (2) 2 kg 80 g
- (3) 20 kg 8 g
- (4) 20 kg 80 g

5. Each has an area of 1 square unit.



What is the area of the figure above?

- (1) 23 square units
- (2) 21 square units
- (3) 19 square units
- (4) 18 square units

Short-Answer Questions (SAQ)
Questions 6 to 13 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(8 marks)

6. What is the missing denominator?

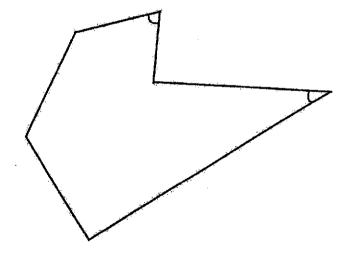
$$\frac{3}{5} = \frac{9}{?}$$

Ans:		
4 11 100	<u> </u>	

Express  $\frac{14}{35}$  in its simplest form.

\ns:			 

How many acute angles are there in the figure below? 8.

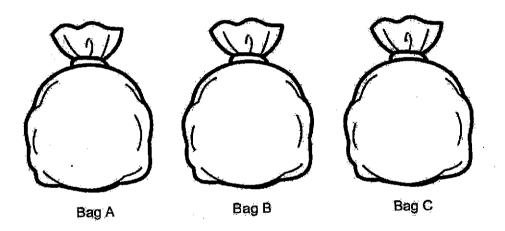


9.	Find the perimeter of the square.
	9 cm
	Ans: cm
10.	The length of a rectangular grass patch is 8 m. Its breadth is 7 m. What is the area of the grass patch?
	Ans: m²
11.	Write the time 00 10 in 12-hour clock.
	Ans:

12. Axel started to cycle at 11 30. He finished cycling at 13 17. How long did he cycle?

Ans:	 h	min

13. There are 3 bags, A, B and C. All the pens in each bag are put into groups of 6.



Bag A has 36 pens.
It contains the least number of pens.
The number of pens in Bag B is between 45 and 50,
Bag C has fewer pens than Bag B.
How many pens are there in Bag C?

_		
Ans:	 	 _

Que you	ort-Answer Questions (SAQ) estions 14 to 23 carry 2 marks each. Show your working clear or answers in the spaces provided. For questions which require or answers in the units stated.	ly and write units, give
		(20 marks)
14.	Look at the number patterns below. Find the missing number in each number pattern.	
•	(a) 3699 3709 3809 3819 3919 3929 7 4039 4139	
	Ans: (a)	
	(b) ? , 7489 , 7539 , 7589 , 7639 , 768	9
	Ans: (b)	
15.	(a) Find the sum of 560 and 1320,	
	Ans: (a)	
	(b) 8001 - ? = 2417	
	Ans: (b)	

16. (a) Michelle bought 5 trays of eggs.

Each tray had 8 eggs.

How many eggs did Michelle buy altogether?

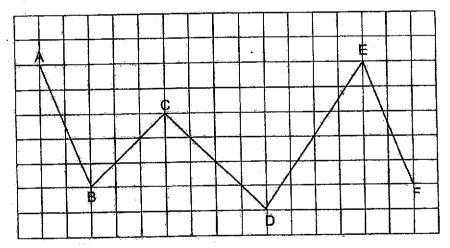
Ans: (	a)	
, uio. 1		

(b) Michelle used 4 eggs to bake each cake.

How many cakes could she bake with all the eggs that she bought?

Ans: (b)		<u> </u>		
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17. Look at the figure below.
AB, BC, CD, DE and EF are straight lines.



(a) Name a pair of parallel lines.

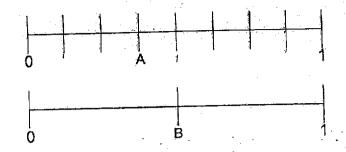
Ans:	and	
Alio.	CH NO:	

(b) Name a pair of perpendicular lines.

	Ans:	 <del>,</del>	and	ــــــــــــــــــــــــــــــــــــــ	 <del></del>
1					

Cheva formed 2 different numbers using the digit cards below. Each digit can only be used once for each number.
8 3 9 0 1
(a) For the first number, he formed the smallest 4-digit odd number. What number did he form?
Ans: (a)
(b) For the second number, he formed the greatest 3-digit even number between 800 and 900. What number did he form?
Ans: (b)
A wallet costs \$56.90. A water bottle costs \$12.50 less than the wallet. How much does the water bottle cost?
Ans: \$

20. Look at the number lines below.



Find the difference between B and A.

Ans:
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21. Li Meng started doing her homework at 14 30.
She took 1 h to write an English composition.
She then took another 1 h 35 min to solve some word problems.
What time did she complete her homework?

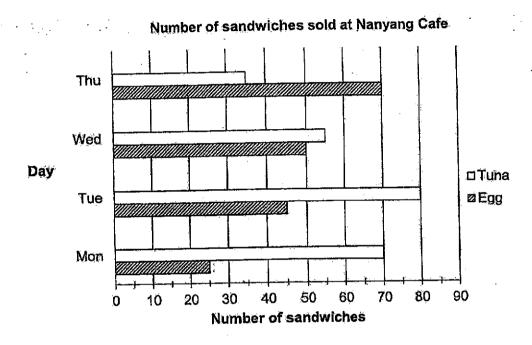
22.	There were some students in the library at first.  18 students left the library.  13 students then went into the library.  In the end, there were 312 students left in the library.  How many students were there in the library at first?
	Ans:
23.	Joey has 76 sweets.  She packs all the sweets into bags of 3 sweets or bags of 5 sweets.  She has 20 bags of sweets after packing.  How many bags of 3 sweets are there?
	-

Long-Answer Questions (LAQ)

For questions 24 to 28, 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.

(17 marks)

The bar graph shows the number of egg sandwiches and tuna 24. sandwiches sold at Nanyang Cafe from Monday to Thursday.



(a) How many more tuna sandwiches than egg sandwiches were sold on Tuesday?

Ans:	(a)	 ]	
41.150	(~)		

(b)	Which day had the greates sandwiches and tuna sand	st difference in the number of egg lwiches sold?	
		-	
			٠.
	·		
		Ans: (b)	[1]
(c)	The cafe sold each egg sar What was the total amount sandwiches on Wednesday	collected from the sale of and	
-		Ans: (c)	_[1]

-	•				
		•		•	
	•				
			Ans:		[3]
		- 191			
	There was a total i	of 756 visitors	at the zoo.		
.6.	There was a total of the There were 3 time. How many more controls	of 756 visitors s as many ch hildren than a	at the zoo. Ildren as adults. Idults were there	e?	
!6 <b>.</b>	There was a total of the There were 3 time How many more co	of 756 visitors s as many ch hildren than s	at the 200. Idren as adults. Idults were there	e?	
6.	There was a total of the There were 3 time. How many more control	of 756 visitors s as many ch hildren than s	at the zoo. Ildren as adults. Idults were there	∍?	
6.	There was a total of There were 3 time How many more c	of 756 visitors s as many ch hildren than อ	at the zoo. Ildren as adults. Idults were there	e?	
6.	There was a total of There were 3 time How many more c	of 756 visitors s as many ch hildren than a	at the zoo. Ildren as adults. Idults were there	e?	
6.	There was a total of There were 3 time How many more continued to the How more cont	of 756 visitors s as many ch hildren than a	at the zoo. Itdren as adults. Idults were there	<b>9?</b>	
6.	There was a total of There were 3 time How many more continued to the How more cont	of 756 visitors s as many ch hildren than a	at the zoo. Itdren as adults. Idults were there	<b>9?</b>	
6.	There was a total of There were 3 time How many more co	of 756 visitors s as many ch hildren than a	at the zoo. Itdren as adults. Idults were there	<b>9?</b>	
6.	There was a total of the there were 3 time. How many more continued to the total of	of 756 visitors s as many ch hildren than a	at the zoo. Itdren as adults. Idults were there	<b>9?</b>	
6.	There was a total of There were 3 time How many more continued to the How more cont	of 756 visitors s as many ch hildren than a	at the zoo. Itdren as adults. Idults were there	<b>9?</b>	

Ali had 128 more stickers than Bala at first.
Ali gave 25 stickers to Bala.
How many more stickers did Ali have than Bala in the end?

25.

Ans:

27.	A total of 382 packets of biscuits were collected for a donation drive on Saturday and Sunday.  These biscuits collected were given to families.  Each family was given 6 packets of biscuits.
	(a) What was the greatest number of families that received the biscuits?
	Ans: (a)[2]
	b) 22 more packets of biscuits were collected on Sunday than on Saturday.  How many packets of biscuits were collected on Saturday?
	Ans: (b)[2]

(a)	How much water was left in the pail?
÷	Ans: (a)[2]
(b)	Meera poured all the water left in the pail equally into 5 identical empty jugs. How much water did she pour into each jug?
<u> </u>	Ans: (b)[2]
, <del></del> :	End of Paper
	16

A pail contains 5320 ml of water. Meera poured away 4470 ml of water from the pail.

28.

Stuitiple Choice Questions (MCQ)

Cluestions 1 to 5 carry 1 mm arkeach. For each question, four options are given.

One of them is the correct arrayer. Make your choice (1, 2, 3 or 4) and write your answer (1, 2, 3 or 4) it is the bracket (1) provided.

(5	marks
----	-------

- What is three thous 속 마다, six hundred and six written as a humerat?
  - (1) 3886
  - (2) 3366
  - (3) 3606
  - (4) 3660

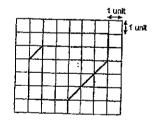
- ( 3 )
- What is the missing number in the equation below?

7023 = 7000 +	+3
---------------	----

- (1) 203
- (2) 200
- (3)
- (4) 20

(4)

Each has an area of 1 square unit.



### What is the area of the figure above?

- 23 square units
- 21 aquam units
- 19 square units
- 18 square units
- (2)

Arrange the fractions in order from the greatest to the smallest.

1/2 , 2/8 ,

<u>Gr</u>	<u>eates</u>	<u>t</u>		5	mallest			
(1)	5		1/2		<u>2</u>			
(2)	5		<u>2</u> B		1/2			
(3)	2 8		1/2		<u>5</u>			
(4)	2 8	,	5	,	1/2			
٠.	٥		•				ţ	ļ

- Express 2080 g in kilograms and grams.
  - (1) 2 kg 8 g
  - 2 kg 80 g
  - 20 kg B g
  - 20 kg 80 g

(2)

Short-Answer Questions (SAQ)
Questions 6 to 13 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(B marks)

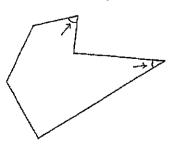
5×3=15

Ana: 15

Express  $\frac{14}{35}$  in its simplest form.

Ans:

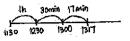
How many acute angles are there in the figure below?



Ans:

Find the perimeter of the square.			
·			
	a cuí	in the	75
1	, -		
9+9+9+9=36			
or			
4× 4 = 36			
	Ans: _	36	cm
The length of a rectangular grass p	atch is 8 m.		
The tength of a rectangular grass parties breadth is 7 m.  What is the area of the grass patch		-	
Area = 8×7		• • -	
= 56			
•	Ans:	56	m²
. Write the time 00 10 in 12-hour clo	ck.		
0010 is 12:00 am	1	•	
(after midnight)		•	
		12 = 10	am
	Ans: _		
. 5			
Short-Answer Questions (SAQ) Questions 14 to 23 carry 2 marks each your enzwers in the spaces provided.	Show you	r working cla	early and write
No. of Language Constitute (SAC)	Show you	r working cla	early and write
Short-Answer Questions (SAQ) Questions 14 to 23 carry 2 ments each your enswers in the spaces provided, your enswers in the units stated,	ı. Show you For question	r working cla	early and write the units, give
Short-Answer Questions (SAQ) Questions 14 to 23 carry 2 merits each your enswers in the spaces provided. your enswers in the units stated.  14. Look at the number patterns beliefind the missing number in each	n. Show you For questor ow. a number pat	r working de is which requ item.	rarly and write the units, give (20 marks)
Short-Answer Questions (SAQ) Questions 14 to 23 carry 2 merits each your enswers in the spaces provided. your enswers in the units stated.  14. Look at the number patterns beliefind the missing number in each	n. Show you For questor ow. a number pat	r working de is which requ item.	rarly and write the units, give (20 marks)
Short-Answer Questions (SAQ) Questions 14 to 23 carry 2 ments each your enswers in the spaces provided. your enswers in the units stated.  14. Look at the number patterns belief in the missing number in each	n. Show you For questor ow. a number pat	r working de is which requ item.	rarly and write the units, give (20 marks)
Short-Answer Questions (SAQ) Questions 14 to 23 carry 2 ments each your enswers in the spaces provided. your enswers in the units stated.  14. Look at the number patterns belief the missing number in each find the missing number in each 4100 4100 4100 4103 4039 , 4139	n. Show you For questor ow. a number pat	r working de is which requ item.	rarly and write the units, give (20 marks)
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Short-Answer Questions (SAQ) Questions 14 to 23 carry 2 marks each your enswers in the spaces provided, your enswers in the units stated.  14. Look at the number patterns belief ind the missing number in each to 4100 410 (a) 3669 , 3709 , 3809 , 38 4039 , 4139  3429+100 = 4029	n. Show you for question ow. I number part 1100 419, 3919, And	r working da is which required tem. 100 +100 3929 .	early and write the units, give (20 marks)
Short-Answer Questions (SAQ) Questions 14 to 23 carry 2 ments each your enswers in the spaces provided, your enswers in the units stated.  14. Look at the number patterns belief ind the missing number in each to 4100 4100 4100 4109 (a) 3659, 3709, 3809, 3809, 3809, 4139  3929+100 = 4029	n. Show you for question ow.  a number pair 1100 \$\frac{4}{19}\$, 3819,  And  And  And  And  And  And  And  An	tem. 100 3929	early and write the units, give (20 merks)
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Short-Answer Questions (SAQ)  Questions 14 to 23 carry 2 ments each your enswers in the spaces provided. Your enswers in the units stated.  14. Look at the number patterns belief into the missing number in each 400 410 410 403 4039 4139  3929+100 = 4029  (b)	n. Show you	tem. 100 3929	early and write the units, give (20 merks)
Short-Answer Questions (SAQ)  Questions 14 to 23 carry 2 ments each your enswers in the spaces provided. your enswers in the units stated.  14. Look at the number patterns belief in the missing number in each 400 410 410 403 4139 4139 4139 4139 4139 4139 4139 413	1. Show you you you you you have you have you have you had you have you hav	r working class which requires them. 3929	early and write the units, give (20 merks)
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Short-Answer Questions (SAQ) Questions 14 to 23 carry 2 ments each your enswers in the spaces provided. Your enswers in the units stated.  14. Look at the number patterns belief ind the missing number in each 4100 4100 4100 4109 4139 4139 3429 + 100 = 4029  (b) 7 7489 750 7489 750 7489 750 7489 750 750 750 750 750 750 750 750 750 750	And	r working class which requires them. 3929	early and write the units, give (20 merks)
Short-Answer Questions (SAQ) Questions 14 to 23 carry 2 ments each your enswers in the spaces provided. Your enswers in the units stated.  14. Look at the number patterns belief the missing number in each 100 110 140 140 140 140 140 1409 1409 1	And	r working class which requires them. 3929	early and write the units, give (20 merks)
Short-Answer Questions (SAQ)  Questions 14 to 23 carry 2 ments each your enswers in the spaces provided. Your enswers in the units stated.  14. Look at the number patterns belief into the missing number in each 400 +100 +100 +100 +100 +100 +100 +100	And	r working class which requires them. 3929	early and write the units, give (20 merks)
Short-Answer Questions (SAQ)  Questions 14 to 23 carry 2 ments each your enswers in the spaces provided. your enswers in the units stated.  14. Look at the number patterns belief into the missing number in each 400 410 410 410 410 410 410 410 410 410	And	r working class which requires them. 3929	early and write the units, give (20 merks)
Short-Answer Questions (SAQ)  Questions 14 to 23 carry 2 ments each your enswers in the spaces provided. Your enswers in the units stated.  14. Look at the number patterns belief into the missing number in each 400 +100 +100 +100 +100 +100 +100 +100	1. Show you for question on number path 1100 \$\frac{4}{100}\$. And 320.	r working class which requires them. 3929	rarly and write the units, give (20 marks)  ?  !O2-9  7639

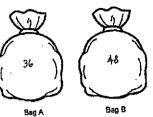
Axel started to cycle at 11 30. He finished cycling at 13 17. How long did he cycle?

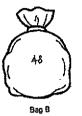


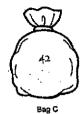
1h+30min+17 min = 1h 47min

Ans: 1, h 47 min

There are 3 bags, A, 8 and C.
All the pens in each bag are put into groups of 6.







Bag A has 36 pens. It contains the least number of pens. The number of pens in Bag B is between 45 and 50. Bag C has fewer pens than Bag B. How many pens are there in Bag C?

List all multiples of 6

36,41,48

Ans:	42
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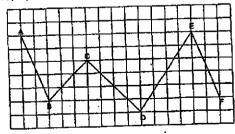
(a) Michells bought 5 trays of eggs.
 Each kay had 5 eggs.
 How many eggs did Michelle buy sitogether?

40 Ans: (8) \_

(b) Michelle used 4 eggs to bake each cake.
How many cakes could she bake with all the eggs that she bought?

10 Ana: (b)

Look at the figure below. AB, BC, CO, DE and EF are straight lines.



(a) Name a pair of parallel lines.

Ans: AB and EF

(b) Name a pair of perpendicular lines.

Ansc BC and CD

18.	Cheva formed 2 different numbers using the digit cards below.
	unit con way be used area tarabet strate.

8	3	9	0	1 1

(a) For the first number, he formed the smallest 4-digit odd number. What number did he form?

_1	0 3 q	Do not start with 'o'.
<b>↑</b>		
Smallest	greatest odd	Ans: (a) 1034

(b) For the second number, he formed the greatest 3-digit even number between 800 and 900.

What number did he form?

19. A wallet costs \$56.90. A water bottle costs \$12.50 less than the wallet. How much does the water bottle cost?

Ans: \$ 44.40

There were some students in the library at first.

18 students left the fibrary.

13 students then went into the library.

In the end, there were 312 students left in the library.

How many students were there in the library at first?

317

Joey has 76 sweets.
She packs all the sweets into bags of 3 sweets or bags of 5 sweets.
She has 20 bags of sweets after packing.
How many bags of 3 sweets are there?

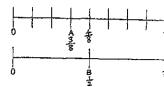


No of Local	> 12 + 8	}			
No. of bags of 3sweets	No of Sweets	No of bags of 5 sweets	No. of Sweets	Total no. of sweets	Ĭ
12	12x3=36	8		36+40=76	ŀ

Method Suppose all are bags of 3 sweets 20 x 3 = 60 76-60= 16 5-3=2 16+2=8 20-8=<u>12</u>

Me‱d 3	Suppose all are bags of 5 20×5=100	swats	Ans:	12
_	100 - 76 = 24			<del></del>
	5+3 <b>= 2</b>			
	2# ÷ 2 = <u>12</u>	<b>- 11</b>		

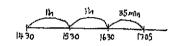
#### 20. Look at the number lines below.



Find the difference between B and A.

g or equivalent

Li Meng started doing her homework at 14 30. She took 1 h to write an English composition. She than took enother 1 h 35 min to solve some word problems. What time did she complete her homework? 21.

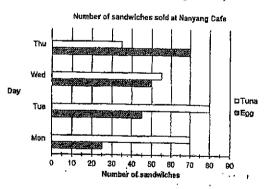


17 05 or 5:05 pi

10

<u>Long-Answer Questions (LAQ)</u>
For questions 24 to 28, show your working clearly and write your enswers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

The bar graph shows the number of egg sandwiches and tuna sandwiches sold at Nanyang Cafe from Monday to Thursday, 24.



(a) How many more turns sandwiches than egg sandwiches were sold on Tuesday?

80 - 45 = 35

35 Ans: (a) \_ \_[1]

	to the second and the second and are
(b)	Which day had the greatest difference in the number of egg
	conduiches and tuna sandwiches sold?

Ali had 128 more stickers than Bala at first. All gave 25 stickers to Bala. How many more stickers did Ali have than F

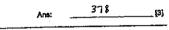
usua wore suckers and wit	HEAR CHANG DOUGHT IN TH	y 0.11g.	
	•	<b>←</b> — [28	-
25+25 = 50	*lī /	25	125
128 - 50 = 78	Bala	<b>155</b> 4	7
780 -	•	م	

(c) The cafe sold each egg sandwich for \$2.
What was the total amount collected from the sale of egg sandwiches on Wednesday and Thursday?

26.	There was a lotal of 750 visitors at the 200.  There were 3 times as many children as adults.  How many more children than adults were there?
Chil Adu	$\frac{1}{1} = \frac{1}{1} $
,	756 ÷ 4 = 189 (1 unit) 189 x 2 = 378 (2 units)

14

Ans:	(c) _	\$240	{{1}}
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78

- A lotal of 382 packets of biscutts were collected for a donation drive on Saturday and Sunday.

  These biscuits collected ware given to families.

  Each family was given 6 packets of biscuits.
  - (a) What was the greatest number of families that received the biscuits?

←S320ml	
poured away	e <del>f </del>
4470ml (23)	<del>, 7,</del>

A pall contains 6320 ml of water. Meera poured away 4470 ml of water from the pall. (a) How much water was left in the pall?

(b) 22 more packets of biscuits were collected on Sunday than on Saturday. How many packets of biscuits were collected on Saturday?

$$382-22=360$$

$$360 \div 2 = 180$$

$$361 \div 2 = 180$$

$$361 \div 2 = 180$$

63

(b) Meera poured all the water left in the pail equally into 5 identical empty jugs.

How much water did she pour into each jug?

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			Ans:	(b)	170 ml	[2]
,	•	 				