

# TERM 1 WEIGHTED ASSESSMENT 2023

### **PRIMARY 6**

# MATHEMATICS PAPER 1

(BOOKLET A)

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

## **INSTRUCTIONS TO PUPILS**

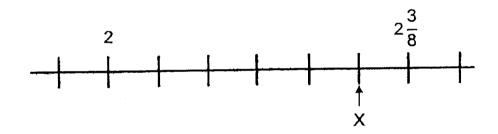
- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 5. The use of calculators is **NOT** allowed.

Name:		(	)
Class: Primary 6 (	)		

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.

- Janice is  $\frac{5}{7}$  as tall as Xiao Ming. What is the ratio of Xiao Ming's height to Janice's height?
  - (1) 5:7
  - (2) 7:5
  - (3) 5:12
  - (4) 7:12
- A pail contains 28 t of water. A tank contains 800 times as much water as the pail. How many litres of water are there in the tank?
  - (1) 16 400 8
  - (2) 22 400 ℓ
  - (3) 64 400 8
  - (4) 224 000 8

- 3 What is the value of  $\frac{2}{3} + \frac{1}{5}$ ?
  - (1)  $\frac{3}{8}$
  - (2)  $\frac{3}{15}$
  - (3)  $\frac{2}{15}$
  - $(4) \frac{13}{15}$
- 4 In the number line below, what is the value of X?



- (1)  $2\frac{1}{4}$
- (2)  $2\frac{3}{15}$
- (3)  $2\frac{5}{16}$
- (4)  $2\frac{1}{2}$

5 What is the value of  $\frac{3}{7} \times \frac{5}{2}$ ?

- (1)  $\frac{8}{9}$
- (2)  $\frac{15}{14}$
- (3)  $\frac{15}{9}$
- (4)  $\frac{6}{35}$

6  $\frac{3}{4}$  of a pizza was shared equally among 5 people. What fraction of the pizza did each person receive?

- (1)  $\frac{3}{20}$
- (2)  $\frac{4}{15}$
- (3)  $\frac{20}{3}$
- $(4) \frac{7}{45}$

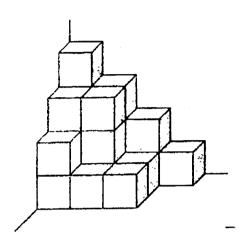
7	Expre	ss 10.01 kg in kilograms and grams.
	<ul><li>(1)</li><li>(2)</li><li>(3)</li><li>(4)</li></ul>	1 kg 1 g 10 kg 1 g 10 kg 10 g 100 kg 10 g
8	Ninety	didentical pencils cost \$57.60. What is the cost of one such pencil?
	(1)	<b>\$0.54</b>
	(2)	\$0.64
	(3)	\$0.74
	(4)	\$6.40
9	Sathy mang pears	a had 250 fruits. 50 of them were papayas, 110 of them were oes and the rest were pears. What percentage of her fruits were?
	(1)	20%
	(2)	36%
	(3)	44%
	(4)	64%

Which one of the following is likely to be the mass of a honeydew sold in a supermarket?



- (1) 2.5 g.
- (2) 25 g
- (3) 2.5 kg
- (4) 250 kg
- The length, breadth and height of a box are in the ratio 3:2:1 respectively. The length of the box is 6 cm. Find the volume of the box.
  - (1) 12 cm<sup>3</sup>
  - (2) 18 cm<sup>3</sup>
  - (3) 36 cm<sup>3</sup>
  - (4) 48 cm<sup>3</sup>

The solid below is made up of 1-cm cubes. How many more 1-cm cubes must be added to the solid to make it a cuboid measuring 4 cm by 3 cm by 4 cm?

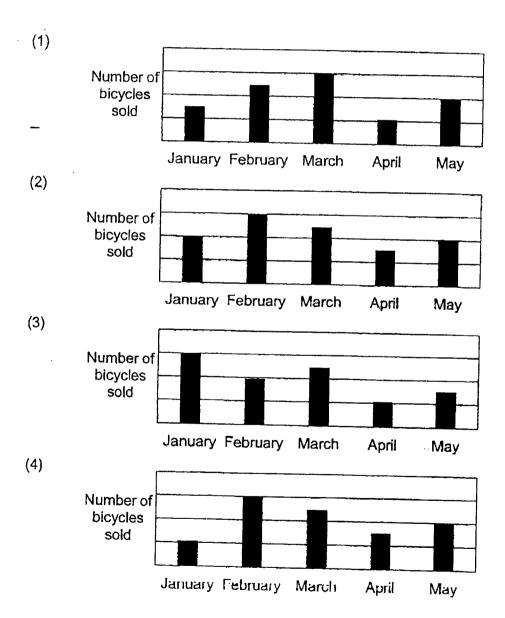


- (1) 27
- (2) 28
- (3) 29
- (4) 30

13 The table below shows the number of bicycles sold each month by a shop.

Month	Number of bicycles sold
January	53
February	150
March	124
April	76
May	99

Which of the following bar graphs best represents the information shown in the table?



Sally had some apples.  $\frac{3}{5}$  of the apples were red. She then gave  $\frac{1}{2}$  of the red apples to her sister. What fraction of Sally's apples were given to her sister?



(2) 
$$\frac{5}{6}$$

(3) 
$$\frac{1}{10}$$

(4) 
$$\frac{3}{10}$$

15 The first 15 numbers of a number pattern are given below.

What is the 274th number?

- **(1)** 0
- (2) 6
- (3) 8
- (4) 9



# TERM 1 WEIGHTED ASSESSMENT 2023

### **PRIMARY 6**

# MATHEMATICS PAPER 1 (BOOKLET B)

Total Duration for Booklets A and B: 1 hour

### **INSTRUCTIONS TO PUPILS**

- 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.
- 5. The use of calculators is **NOT** allowed.

Name:	(	)
Class: Primary 6 (	)	

Booklet B / 25

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

Ans:  Ans:  The breadth of a rectangle is $\frac{5}{6}$ m and its area is 2 m². Find the length of the rectangle. Express your answer as a mixed number in simplest form.	es iits (s)
17 The breadth of a rectangle is $\frac{5}{6}$ m and its area is 2 m <sup>2</sup> . Find the length of the rectangle. Express your answer as a mixed number in	
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of the rectangle. Express your answer as a mixed number in	
Ans:	m

18	The ratio of Shina's test marks to Kyle's test marks was scored 16 fewer marks than Kyle. How many marks did	3:7. Shina Kyle score?
	Ans:	
19	Round 199.99 to 1 decimal place.	_
-	Ans:	
20	Mrs Pereira baked 400 tarts. 45% of the tarts she baked w while the rest were chocolate tarts. How many chocolate Pereira bake?	ere egg tarts tarts did Mrs
	Ans:	

your a	ions 21 to 30 carry 2 marks each. Show your working clear inswers in the spaces provided. For questions which require inswers in the units stated.	ly and write a units, give (20 marks)
21	75% of a number is 36. What is the number?	
	Ans:	·····
22	Derinda had 25 m of ribbon. She used it to make as man possible. She used $\frac{2}{3}$ m of ribbon to make each flower. metres of the ribbon were left?	
	Ans:	m

<b>2</b> 3	Brenda had 6 ℓ of orange juid	e. She drank $\frac{1}{2}$ of it in the morning and
		How much orange juice did she have left
	in the end?	

ns: \_\_\_\_\_\_ {

In a camp, the number of children is  $\frac{3}{8}$  of the number of adults.  $\frac{2}{9}$  of the children are boys and there is an equal number of men and women. What is the ratio of the number of girls to the number of women?

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

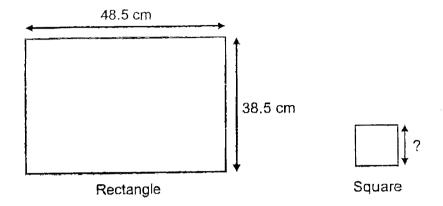
	number of stickers that Clarence received to the number of stickers Amir received was 4:9. The ratio of the number of stickers Jun Wei received to the number of stickers Amir received was 4:3. Clarence received
	24 stickers. How many stickers did Jun Wei receive?
	Ans:
26	The ratio of the number of sweets Rachel had to the number of sweets Euodia had was 2:3 at first. After Rachel bought 8 more sweets, the ratio of the number of sweets Rachel had to the number of sweets Euodia had became 5:6. How many sweets did Euodia have?
	·
	Ans:

Clarence, Amir and Jun Wei received some stickers. The ratio of the

25

27	Mr Lee spent half	ore than Mr Lee at first.  of his money, both of the nuch money did Mr Lee	After Mr Tan spent \$50 arem had the same amount of have at first?	br tc
28	Diane wanted to tra the first week. She	in for a marathon. She	started by running 1.6 km in by 1.2 km every week from	n n
٠.	the previous week. weeks.	Find the total distance	e that she ran in the first	5
		Ans	; km	

A wire 210 cm long was cut into 2 pieces and bent to form a rectangle and a square. The length of the rectangle is 48.5 cm and its breadth is 38.5 cm. Find the length of one side of the square.



Ans: cm

The table below shows the number of toys collected by Sunshine Centre in Year 2021 and Year 2022. Part of the table is covered by an ink blot. The number of soft toys collected and the total number of toys collected were both three-digit numbers.

Type of Toys	Year 2021	Year 2022
Wooden Toys	121	80
Electronic Toys	65	74
Soft Toys	18	200
Total number of toys	3	354

Each of the statements is either true, false or not possible to tell from the information given. For each statement, put a tick  $(\checkmark)$  to indicate your answer.

Statement	True	False	Not possible to tell
In Year 2021, more than 50% of the toys collected were soft toys.			
In Year 2021, 20% of the toys collected were electronic toys.			
In Year 2022, the number of wooden toys collected was 40% of the number of soft toys collected.			

End of Paper



# TERM 1 WEIGHTED ASSESSMENT 2023

### PRIMARY 6

# MATHEMATICS PAPER 2

Duration: 1 hour 30 minutes

- 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.
- 5. The use of an approved calculator is allowed.

Name:(	)	
Class: Primary 6 ( )		
Parent's Signature:	Booklet A	/ 20
	Booklet B	/ 25
	Paper 2	/ 55
	Total	/ 100

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

you	estions 1 to 5 carry 2 nurses in the spaces are answers in the units st	provided. For q	w your working clea uestions which requ	arly and write ire units, give (10 marks)
1	Jasper ran $6\frac{1}{10}$ km. they run altogether?	Irfan ran 2 <mark>-7</mark> 16	n more than Jasper.	How far did
	_		Ans:	km
2	The mass of each sac sacks of rice.	k of rice is $4\frac{1}{5}$ kg.	Find the total mas	ss of 45 such
		А	ns:	kg
3	Joy had a meal that co the cost of her meal at	st \$32.50 before ( ter adding 8% GS	GST at a restaurant.	What was
			Ans: \$	

4 Danny's scores for 5 games are shown in the table below.

Game	1 st	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>
Score	8	0	7	16	9

Find his average score.

Ans:	
------	--

Siti has the exact amount of money to buy 84 bottled drinks or 126 canned drinks. She has already spent some of the money to buy 39 canned drinks and 42 bottled drinks. How many more bottled drinks can she buy with the remaining money?

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

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)

Miss Wong bought two identical suitcases at a year-end sale. The two suitcases cost \$174 after discount. Find the price of one such suitcase before discount.



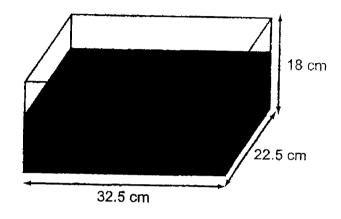
Ans: \_\_\_\_\_\_\_ [3]

7 Mr Mohammad took a taxi from home to his office. His taxi fare was based on the charges shown below.

First 1 kilometre or less	\$4.30
Every additional 400 m or less	\$0.24
Every 45 seconds of waiting or less	\$0.24

The taxi stopped once at a traffic light and travelled a total distance of 7 km to reach his office. Mr Mohammad paid \$9.10. What was the longest possible duration the taxi stopped at the traffic light?

A rectangular tank measuring 32.5 cm by 22.5 cm by 18 cm was  $\frac{5}{9}$ -filled with water as shown below. When Kamala poured 7 litres of water into the tank, some water overflowed. Find the volume of water that overflowed. Give your answer in litres.



Ans: \_\_\_\_\_[3]

Amrit had some sugar at first. He used 275 g of sugar to bake some muffins and  $\frac{3}{5}$  of the remaining sugar to bake some cookies. In the end, he had  $\frac{1}{8}$  of the sugar left. How much sugar did he have at first?

Ans: \_\_\_\_\_[3]

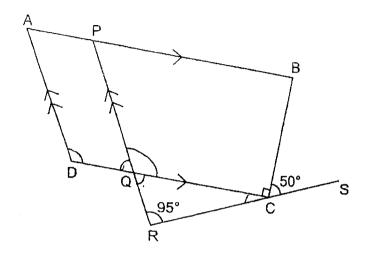
In a class of 42 children, the average mass of the children was 37.5 kg. The average mass of the girls in the class was 36.7 kg. The average mass of the boys in the class was 38.8 kg. How many more girls than boys were there in the class?

Ans: [3]

A group of children is put into 2 halls, hall A and hall B. The ratio of the number of children in hall A to the number of children in hall B is 3:8. In hall A, the ratio of the number of boys to the number of girls is 5:2. There are 18 girls in hall A. Find the total number of children in both halls.

Ans: [3]

In the figure below, ABCD is a trapezium. APB, DQC, RCS and PQR are straight lines. APB is parallel to DQC and AD is parallel to PQR. ∠BCS = 50°, ∠BCQ = 90° and ∠QRC = 95°.



(a) Find ∠DQP.

Ans:	(a)	[2]
	· · · /	 [4]

(b) Find ∠ADQ.

Ans: (b) \_\_\_\_\_[2]

13	on a	Ashraf had some money at first. He spent 15% of it on food and \$810 on a new laptop. He then gave 20% of the remainder to his brother. In the end, he had \$304 left.			
	(a)	How much money did Ashraf give to his brother?			
		_			
		Ans: (a)[2]			
	(b)	How much money did Ashraf have at first?			
		Ans: (b)[3]			

- Susan had 117 beads and marbles altogether. The beads and marbles were either white or black. 20% of the beads and 50% of the marbles were white. There were as many black beads as black marbles.
  - (a) In the statement below, circle the phrase 'more than', 'fewer than' or 'the same as' that correctly describes the comparison between the number of beads and marbles Susan had.

The number of beads Susan had was

( more than / fewer than / the same as )

the number of marbles she had.

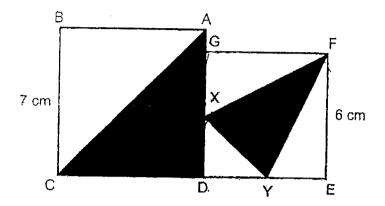
(b) How many beads did Susan have?

Ans:	(b)		[3]
------	-----	--	-----

15	Christopher and Helen had 1044 erasers altogether at first. Christopher
	gave $\frac{4}{5}$ of his erasers to his brother. Helen gave $\frac{5}{8}$ of her erasers to
	her sister. In the end, Helen had 150 erasers more than Christopher.
	How many erasers did Christopher have at first?

Ans: \_\_\_\_\_[4]

The figure below is made up of 2 squares, ABCD and DEFG. X is a point on GD and Y is a point on DE. BC = 7 cm, FE = 6 cm and XD = DY = YE.



(a) Find the total area of the shaded parts.

Ans:	(a)	[3]
	(-)	 1OF

(b) What fraction of the figure is unshaded?

Ans: (b) \_\_\_\_\_[2]

17 The table below shows the number of clips in different coloured containers.

Colour of container	Number of clips in each container
White	30
Blue	50
Green	60

(a) Gwen has a total of 10 white containers and green containers. What is the smallest possible difference between the total number of clips in Gwen's white containers and the total number of clips in her green containers?

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

(b) Clement has some white containers and some blue containers. The ratio of the total number of clips in Clement's white containers to the total number of clips in his blue containers is 3:2. Express the number of his blue containers as a fraction of the total number of his containers.

Ans:	(b)	[3]



TERM 1 WEIGHTED ASSESSMENT

2023

PRIMARY 6

**MATHEMATICS** PAPER 1

(BOOKLET A)

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

#### INSTRUCTIONS TO PUPILS

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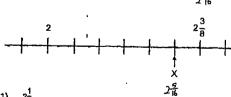
- 3. Answer all questions.
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  5. The use of calculators is NOT allowed.

Name	:		(	)
	Primanu 6 (	,		

- What is the value of  $\frac{2}{3} + \frac{1}{5}$ ?
  - (1)
- $\frac{10}{15} + \frac{3}{15}$
- (2)
- (3)

(4)

- (4)
- In the number fine below, what is the value of X?



- (1)
- (2)
- (3)

(3)

(4)

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.

Janice is  $\frac{5}{7}$  as tall as Xiao Ming. What is the ratio of Xiao Ming's height to Janice's height?

xiao Ming : Janice

(1) 5:7

- 5
- (2) 7:5
- (2)

- 7:12
- A pail contains 28 t of water. A tank contains 800 times as much water as the pail. How many titres of water are there in the tank?
  - (1) 16 400 C
  - 22 400 t

- 64 400 t
- = 224 × 100
- 224 000 t
- = 22 400
- (2)

- - (1)
- $\frac{3}{7} \times \frac{5}{2} = \frac{15}{14}$
- (2)
- (3)

(2)

- (4)
- $\frac{3}{4}$  of a pizza was shared equally among 5 people. What fraction of the pizza did each person receive?
  - (1)
  - (2)
- (3)
- (4)
- (1)

Express 10.01 kg in kilograms and grams.

- (1) 1 kg 1 g
- 10 kg 1 g
- 10 kg 10 g
- (3)
- (4) 100 kg 10 g
- 90 Ninety identical pencils cost \$57.60. What is the cost of one such pencil?

(1) 
$$80.54$$
  $\$57.60 \div 90 = \$57.60 \div 9 \div 10$ 

(2)

(3) \$0.74 = \$0.64

(4) \$6.40 (2)

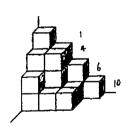
(2)

Salitys had 250 fruits. 50 of them were papayas, 110 of them were mangoes and the rast were pears. What percentage of her fruits were

(1) 20% 
$$\Rightarrow$$
 250 - 50 - 110  
(2) 36%  $\Rightarrow$  200 - 110

- (3) 44%
- 64%
- $\frac{90}{250} = \frac{9}{25} \%$ 

  - = 36 %
- The colid below is made up of 1 am cubes. How many more 1-cm cubes must be added to the colid to make it a cube's measuring 4 cm by 3 cm by 4 cm?



(1) 27

- 28
- 29 (3)
- 1+4+6+10 = 21

48-21 = 27 (1) 10 Which one of the following is likely to be the mass of a honeydew sold in



(3)

- (1) 2.5 g
- (2) 25 g
- 2.5 kg
- (4) 250 kg

The length, breadth and height of a box are in the ratio 3:2:1 respectively. The length of the box is B cm. Find the volume of the box.

(1) 12 ஷ<sup>2</sup>

3 units = 6 cm

(2) 18 cm<sup>3</sup> J unit = 6 = 3

48 cm<sup>2</sup>

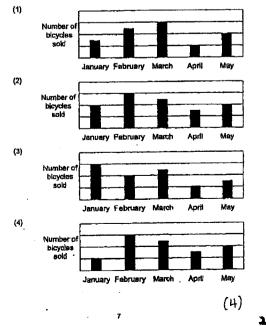
- = 2 2 units = 2x2

volume = Length x Breadth x Height = 6 X 4 X 2 = 24 \* 2 (4)

The table below shows the number of bloydes sold each month by  $\boldsymbol{\varepsilon}$ 

Month	Number of bicyclos so	186
January	53	Jea e
February	· 150	
March	124	
Apdi	78	
May	99	

Which of the following bar graphs best represents the information show in the table?



- Sally had some apples.  $\frac{3}{5}$  of the apples were red. She then gave  $\frac{1}{5}$  of the red applies to her sister. What fraction of Sally's applies were given to her sister?
  - (1)
- 3 × 1 = 3 10
- (2)
- (3)10

(4)

- (4)
- The first 15 numbers of a number pattern are given below.

What is the 274th number?

(1) 0 
$$274 \div 4 = 68R^2$$
 (2) 6  $-24$  (3) 8 (1)  $-32$  (4) 9

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated

Find the value of  $72 + 8 - 2 \times 3 + 77$ . 16

$$\frac{72 \div 8}{2} - 2 \times 3 + 77$$

$$= 9 - 2 \times 3 + 77$$

$$= 9 - 6 + 77$$

$$= 3 + 77$$

$$= 80 (an)$$

17 The breadth of a rectangle is  $\frac{5}{8}$  m and its area is 2 m<sup>2</sup>. Find the length of the rectangle. Express your enswer as a mixed number in its şimplest form.

$$\frac{k \cdot c \cdot f}{2 \cdot 1 \cdot 1 \cdot 1} = \frac{2 \cdot 1 \cdot 1}{5}$$

$$= \frac{12}{5} \times \frac{6}{5}$$

$$= \frac{12}{5} \text{ m (ans)}$$
Ane:  $\frac{2^{\frac{2}{5}}}{3} = \frac{2^{\frac{2}{5}}}{3} = \frac{2$ 



NANYANG PRIMARY SCHOOL

### TERM 1 WEIGHTED ASSESSMENT 2023

PRIMARY 6

**MATHEMATICS** PAPER 1 (BOOKLET 6)

Total Duration for Booklets A and B: 1 hour

#### INSTRUCTIONS TO PUPILS

- Do not turn over this page until you are told to do so.
   Follow all instructions carefully.
- Answer all questions.
- Write your answers in this booklet.
   The use of calculators is <u>NOT</u> allowed.

Name:	(
Class: Primary 6 (	)

Booklet B / 25

)

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

The ratio of Shine's lest marks to Kyle's test marks was 3:7. Shina scored 16 fewer marks than Kyle. How many marks dld Kyle score?

Round 199,99 to 1 decimal place.

Ans: 200.0

Mrs Pereira baked 400 tarts. 45% of the tarts she baked were egg tarts while the rest were chocolate tarts. How many chocolate tarts did Mrs

$$\frac{55}{100} \times \frac{400}{1} = 45 \times 4$$

$$= 55 \times 4$$

$$= 320 (ans)$$

Ana: \_\_\_\_220

Questions 21 to 30 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. (20 marks)

21 75% of a number is 36. What is the number?

Ans: \_\_\_\_\_48

Definds hed  $\frac{25 \text{ m}}{2}$  of ribbon. She used it to make as many flowers as possible. She used  $\frac{2}{3}$  m of ribbon to make each flower. How many metres of the ribbon were left?

$$25 \div \frac{2}{3} = \frac{25}{1} \times \frac{3}{2}$$

$$= \frac{75}{2}$$

$$= \frac{71}{2}$$

$$= \frac{3}{1} \times \frac{3}{2} = \frac{1}{3} \text{ m (ans)}$$

Ans: 3 ..... n

Olaronce, Amir and Jun Wei received some stickers. The ratio of the number of stickers that <u>Clarence</u> received to the number of stickers <u>Amir</u> received was <u>4.9</u>. The ratio of the number of stickers <u>Jun Wei</u> received to the number of stickers <u>Amir</u> received was <u>4.3</u>. Clarence received <u>24 stickers</u>. How many attickers did Jun Wei receive?

clarence = Amir Jun wer : Amir 
$$\frac{4:9}{12:9}$$

$$4 \text{ units} = 24$$

= 71 (ans) Ans: 72

26 The ratio of the number of sweets Rachel had to the number of sweets Euclide had was 2: 3 at first. After Rachel bought 8 more sweets, the ratio of the number of sweets Rachel had to the number of sweets Euclide had became 5: 6. How many sweets did Euclide have?

Eurodia constant

Brenda had 6 t of orange Juice. She drank  $\frac{1}{2}$  of it in the moming and gave  $\frac{1}{4}$  t of it to her brother. How much orange juice did she have left in the COTO

morning 
$$\rightarrow \frac{1}{2} \times \frac{6}{1}$$
= 3.8

Left  $\rightarrow 6-3-\frac{1}{4}$ 
=  $3-\frac{1}{4}$ 
=  $2\frac{1}{4}-\frac{1}{4}$ 
=  $2\frac{1}{4}$  (ant)

Ans:  $2\frac{3}{4}$ 

62

24 In a camp, the number of children is  $\frac{3}{8}$  of the number of adults.  $\frac{2}{9}$  of the children are boys and there is an equal number of men and women.

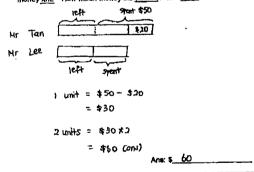
What is the ratio of the number of girls to the number of women?

children: Adult boys: girls: children 3:8 2:7:9 9:24

girls: wamen
7:12 (ans)

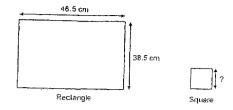
Ans: 7:12

27 Mr Tan had \$20 more than Mr Lee at first. After Mr Tan spert \$50 and Mr Lee spant half of his money, both of them had the same amount of nursey both. How much money did Mr Lee have et first?



28 Diane wanted to train for a merathon. She started by running 1.6 km in the first week. She increased her distance by 1.2 km every week from the previous week. Find the total distance that she ran in the first 5 weeks.

A wire 210 cm long was cut into 2 pieces and bent to form a rectangle and a square. The length of the rectangle is 48.5 cm and its breadth is 38.5 cm. Find the length of one side of the square.



48.5	ferimeter of rectangle	= (48.5 +38.5) x2
87.0		= 87 ×2 = 174
87 ×2 174 248 10 174 3 0	210 - 174 = 36 36 ÷4 = 9 cm	. "

Ans:	9	CIT
		w



### NANYANG PRIMARY SCHOOL

TERM 1 WEIGHTED ASSESSMENT 2023

PRIMARY 6

#### **MATHEMATICS** PAPER 2

Duration: 1 hour 30 minutes

### INSTRUCTIONS TO PUPILS

- Do not turn over this page until you are told to do so.
   Follow all instructions carefully.
- 3. Answer all questions.
- Write your answers in this booklet.
   The use of an approved calculator is allowed.

Name;	(	)	
Class: Primary 6 (	)	,	
Parent's Signatum: _			
		Booklet A	/ 20
		Booklet B	/ 25
		Рарег 2	/ 55
		Total	/400

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

The lable below shows the number of toys collected by Sunshine Centre in Year 2021 and Year 2022. Part of the lable is covered by an ink blot. The number of soft toys collected and the total number of toys collected were both three-digit numbers.

Type of Toys	Year 2021	Year 2022
Wooden Toys	121	BQ
Electronic Tays	65	74
Soft Toys	18	200
Total number of toys	3	354

Each of the statements is either true, false or not possible to tell from the information given. For each statement, put a tick ( $\angle$ ) to indicate your

	Statement	True	False	Not possible to tell
121 +65 = 186	In Year 2021, more than 50% of the loys collected were soft toys.			V
20 % → 65 10 % → 65÷2 = 32.5	In Year 2021, 20% of the toys collected were electronic toys,		V	
100% -> 33.5 XM = 325 131 +65 +180	In Year 2022, the number of wooden loys collected was 40% of the number of soft loys collected.	V		
= 186 +180	$\frac{80}{200} = \frac{40}{100}$ 1 is at least 366 End of Bross			

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)

Jasper ran  $\theta \frac{1}{10}$  km. Infan ran  $2\frac{7}{16}$  km more than Jasper. How far didthey run altogether?

$$1.\text{fan} \rightarrow 2\frac{7}{16} + 6\frac{1}{10}$$

$$= 8\frac{43}{80}$$

Ans:	14.51	km
------	-------	----

The mass of each sack of rice is  $4\frac{1}{5}$  kg. Find the lotal mass of 45 such sacks of rice.

Ans:	189 kg
------	--------

Joy had a meal that cost \$32.50 before GST at a restaurant. What was the cost of her meal after adding BY 2ST?

Ana:	<u>35.10</u>
------	--------------

4 Danny's scores for 5 games are shown in the table below.

Game	151	2 <sup>nø</sup>	3 <sup>rd</sup>	410	5ħ
Score	В	0	7	18	9

Find his average score.

Ans: _	8	

5 Silf has the exact amount of money to buy 84 bottled drinks or 126 canned drinks. She has already spent some of the money to buy 39 canned drinks and 42 bottled drinks. How many more bottled drinks can she buy with the remaining money?

84 bottled 
$$\rightarrow$$
 126 canned
1 bottled  $\rightarrow$  126 canned
= 1.5

39 ± 1.5 = 26

26 bothed -> 39 conned

Aris:	16
-------	----

Mr Mohammad took a taxi from home to his office.
His taxi fare was based on the charges shown below.

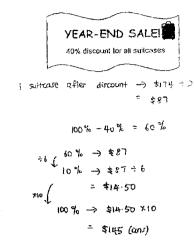
First 1 kliometre or less	\$4,30
Every additional 400 m or less	\$0.24
From 45 appends of waiting or less	50.24

The taxi stopped once at a traffic light and travelled a total distance of 7 km to reach his office. Mr Mohammad peld \$9.10. What was the longest possible duration the taxi stopped at the traffic light?

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.

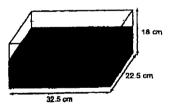
(45 marks)

Miss Wong bought two identical suitcases at a year-end sale. The two suitcases cost \$174 after discount. Find the price of one such suitcase before discount.



Ans: #145 (3)

8 A rectangular tank measuring 32.5 cm by 22.5 cm by 18 cm was 5—filled with water as shown below. When Kamala poured 7 litres of water into the tank, some water overflowed. Find the volume of water that overflowed. Give your answer in litres.



Volume of tank = 32.5 
$$\times$$
 22.5  $\times$  18

= B 162.5

$$1 - \frac{5}{9} = \frac{4}{9}$$

$$\frac{4}{9} \times 13162.5 = 5850$$

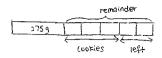
7000 - 5850 = 1150

1150 cm<sup>3</sup> = 1.15 £ (ant)

Ans: 1-15 1 [3]

Ans: 225 S [3]

2 Amnt had some sugar at liret. He used  $\frac{976 \text{ g of sugar to hake some}}{5}$  for the remaining sugar to bake some cookies. In the end, he had  $\frac{3}{6}$  of the sugar left. How much sugar did he have at <u>first?</u>



$$\frac{1}{8}$$
 of sugar  $\Rightarrow$  2 units  
 $\frac{8}{8}$  of sugar  $\Rightarrow$  2 x 8  
= 16 units

$$16-5=11$$

11 units = 275

1 unit = 275 ÷ 11

= 25

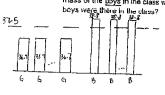
16 units = 25 × 16

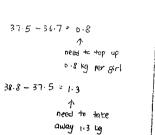
400 g (ant)

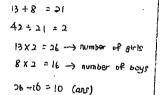
Ans:	_ 400 g	[3]
------	---------	-----

A group of children is put into 2 halfs, half A and half B. The ratio of the number of children in half A to the number of children in half B is 3:8, in half A, the ratio of the number of boys to the number of girts is 5:2. There are 18 girls in half A. Find the lotal number of children in both halfs.

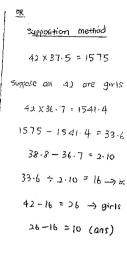
10 In a class of 42 <u>chilition</u>, the <u>average</u> mass of the chilitinn wan 37.5 kg. The average mass of the <u>boys</u> in the class was 36.7 kg. The average mass of the <u>boys</u> in the class was 38.8 kg. How many <u>more girls</u> than





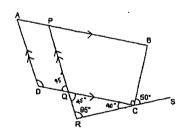


per boy



Ans: \_\_\_\_\_(3)

In the figure below, ABCD is a trapezium. APB, DQC, RCS and PQR are straight lines. APB is parallel to DQC and AD is parallel to PQR. ∠BCS = 50°, ∠BCQ = 90° and ∠QRC = 95°.



#### (a) Find ∠DQP,

#### (b) Find ∠ADQ.

[1]

- Ashraf had some money at first. He spent 15% of it on food and \$810 on a new laptop, He then gave 20% of the remainder to his brother. In the end, he had \$304 left.
  - (a) How much money did Ashraf give to his brother?

$$100\% - 20\% = 80\%$$
 $80\% \text{ of remainder} \longrightarrow $304$ 
 $14\% \text{ of remainder} \longrightarrow $304 ÷ 4$ 
 $= $76 \text{ (on)}$ 

Ans: (a) #76 [2]

(b) How much money did Ashraf have at first?

remainder 
$$\rightarrow$$
 \$76  $\times$  5

= \$380

100% - 15% = 85%

85%  $\rightarrow$  \$380 + \$810

= \$1190

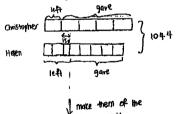
1%  $\rightarrow$  \$190  $\div$  85

Airs. (b) +1400 [3]

10

(2n0) 0041\$ =

15 Christopher and Helen had 1044 erasers aftogether at first: Christopher gave  $\frac{4}{5}$  of his erasers to his brother. Helen gave  $\frac{5}{8}$  of her erasers to her sister. In the end, Helen had 150 erasers more than Christopher. How many erasers did Christopher have at first?



some unit

Christopher [ ]

Hdo/

150 + 3 = 50

3×5 = 15 units -> Christopher

.50 X 8 = 400

8 units + 400 -> Helen

15+8 = 23

· 23 units + 400 -> 1044

23 units = 644 . | unit = 644 + 23 ÷ 28

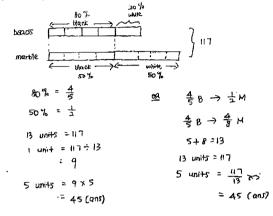
420

15 units = 28 x 15 = 420 (ans) Susan had 117 beads and marbles allogether. The beads and marbles were either white or black. 20% of the beads and 50% of the marbles were white. There were as many black beads as black marbles.

(a) In the statement below, circle the phrase 'more than', 'fewer than' in the same as' that correctly describes the comparison between the number of beads and marbles Susan had.

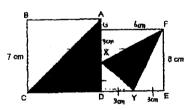
> The number of beads Susan had was ( more than / (fewer than / the same as ) the number of marbles she had.

(b) How many beads did Susan have?



Ans: (b) 45

The figure below is made up of 2 squares, ABCC and DEFG. X is a point on GD and Y is a point on DE. BC = 7 dm, FE = 6 cm and XD = DY = YE.



(a) Find the total area of the shaded parts.

Area of 
$$\Delta \times YF = Area of DEPG - Area  $\Delta DXY - Area \Delta YEF - Area i$ 

$$= (6 \times 6) - (5 \times 3 \times 3) - (5 \times 3 \times 6) - (5 \times 3 \times 6)$$

$$= 36 - 4.5 - 9 - 9$$

$$= 13.5$$

$$24.5 + 13.5 = 3Para^{2} Area; (a) 3Para^{2} [3]$$$$

(b) What fraction of the figure is unshaded?

Area of figure =
$$(7\times7)+(6\times1)$$
  
=  $49+36$   
=  $85$   
Unstracted  $\rightarrow 85-38$   
=  $47$ 

Unshaded -> 47 (anu) Ans: (b) The lebte Uclow shows the number of clips in different coloured containers.

Colour of container	Number of clips In each container
White	30
Blue	50
Green	60

(a) Gwen has a total of 10 white containers and green containers. What is the smallest possible difference between the total number of clips in Gwen's white containers and the total number of clips in her green containers?

Number of dips in green container is twice the

number of clips in white container.

For every 2 white containers to 1 green container, the

difference in zero.

2+1=3

10 = 3 = 3 R1

10 -723

of his containers.

white clips : blue clips

5 : 2

150: 100

150 :30 = 5 -> white containers

100 + 50 = 2 - Hure container

2+5=7

blue total -) - (ans) Aris: (b) \_

End of Paper