

# TERM 1 WEIGHTED ASSESSMENT 2022

### PRIMARY 6

# PAPER 1 (BOOKLET A)

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

### **INSTRUCTIONS TO PUPILS**

- 1. Do nol turn over this page until you are told to de 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. (20 marks)

- The number of cars is  $\frac{14}{24}$  of the number of motorcycles in a carpark. What is the ratio of the number of motorcycles to the number of cars in the carpark? Give your answer in the simplest form.
  - (1) 7:12
  - (2) 12:7
  - (3) 14:24
  - (4) 24:14
- 2 What is the value of 29 400 ÷ 700?
  - (1) 32
  - (2) 42
  - (3) 320
  - (4) 420

- 3 What is the value of  $\frac{11}{12} + \frac{3}{4} \frac{1}{4}$ ?
  - (1)  $\frac{7}{12}$
  - (2)  $\frac{9}{12}$
  - (3)  $\frac{15}{12}$
  - (4)  $\frac{17}{12}$
- 4 In the number line below, what is the mixed number represented by B?



- (1)  $11\frac{3}{4}$
- (2)  $11\frac{3}{5}$
- (3)  $11\frac{3}{8}$
- (4)  $11\frac{3}{10}$

- 5 What is the value of  $\frac{1}{4} \times \frac{12}{5}$ ?
  - (1)  $\frac{3}{5}$
  - (2)  $\frac{2}{3}$
  - (3)  $\frac{5}{16}$
  - (4)  $\frac{5}{48}$
- $\frac{6}{7}$  of a cake is cut equally into 12 slices. What fraction of the whole cake is each slice?
  - (1)  $\frac{1}{14}$
  - (2)  $\frac{1}{42}$
  - (3)  $\frac{18}{7}$
  - (4)  $\frac{72}{7}$

### Which of the following is the same as 10 007 g? 7 (1) 1.07 kg (2) 10.07 kg (3) 10.007 kg (4) 100.07 kg What is the value of 2.5 ÷ 500? 8 (1) 5 (2) 0.5 (3) 0.05 (4)0.005 There are 200 children in a camp. 9 130 of them are girls. What percentage of the children are boys? (1) 30% (2) 35%

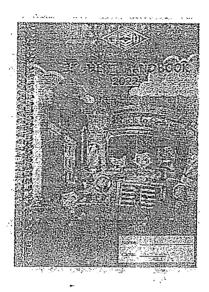
(3)

(4)

65%

70%

10 Which of the following is likely to be the mass of a Nanyang Primary School student handbook?

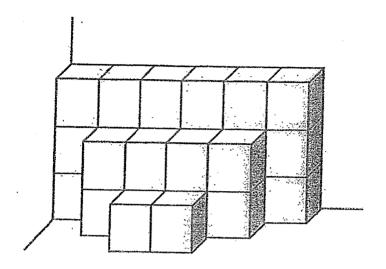


- (1) 20 kg
- (2) 2 g
- (3) 2000 g
- (4) 200 g

The ratio of the number of red pins to the number of yellow pins to the number of green pins is 4:5:3. The total number of yellow pins and green pins is 120. How many red pins are there?

- (1) 30
- (2) 60
- (3) 96
- (4) 160

12 The solid below is built using 1-cm cubes. Find the volume of the solid.



- (1) 28 cm<sup>3</sup>
- (2) 26 cm<sup>3</sup>
- (3) 20 cm<sup>3</sup>
- (4) 18 cm<sup>3</sup>

The table below shows the modes of transport used by students in Class 6E to go to school.

Mode of Transport	Bicycle	Bus	Car	Motorcycle	Train
Number of students	5	10	15	3	8

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

- Number of students

  Bicycle Bus Car Motorcycle Train
- Number of students

  Bicycle Bus Car Motorcycle Train
- Number of students

  Bicycle Bus Car Motorcycle Train
- Number of students

  Bicycle Bus Car Motorcycle Train

- Mdm Nor used  $\frac{1}{3}$  of her money to buy 4 oranges and 8 apples. The cost of 2 oranges was the same as that of 3 apples. What was the greatest number of apples that Mdm Nor could buy with half of the money she had at first?
  - (1) 9
  - (2) 14
  - (3) 21
  - (4) 42
- A table with 4 columns is filled with numbers in a certain pattern.

  The first 6 rows of the table are shown below.

	Column A	Column B	Column C	Column D
Row 1	6	5	4	3
Row 2	7	8	9	10
Row 3	14	13	12	11
Row 4	15	16	17	18
Row 5	22	21	20	19
Row 6	23	24	25	26
* *	*		* *	*

In which column will the number 343 appear?

- (1) Column A
- (2) Column B
- (3) Column C
- (4) Column D



NANYANG PRIMARY SCHOOL

# TERM 1 WEIGHTED ASSESSMENT 2022

### **PRIMARY 6**

## 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 (	<b>)</b> ~		

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.

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. (5 marks) Find the value of  $100 \div (25 - 15) + 8 \times 7$ . 16 Find the value of  $10 \div \frac{3}{8}$ . Give your answer as a mixed number in the 17 simplest form. Ans: \_\_\_\_\_ Jennie used 350 g of flour to bake 7 buns. How many such buns could 18 she bake with 250 g of flour?

Jonas has \$10. He spends 95¢ on a sandwich and 80¢ on a drink. How much money does Jonas have left?

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

Alice and Betty donated a sum of money to charity. 40% of the sum of money was donated by Alice. Betty donated \$480. Find the total sum of money donated by Alice and Betty.

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

you	estions 21 to 30 carry 2 marks each. Show your working clearly and write r answers in the spaces provided. For questions which require units, give r answers in the units stated. (20 marks)
21	Mrs Ong had some potted plants at first. After she sold 240 potted plants, she was left with 20% of the potted plants she had at first. How many potted plants did she have at first?
-	Ans:
22	Mr Menon had $\frac{5}{6}$ kg of sugar. He packed all the sugar into packets of $\frac{5}{18}$ kg each. How many such packets of sugar did he pack?
	Ans:
23	Ismail has 350 buttons. $\frac{2}{5}$ of the buttons are red and the rest are blue. How many blue buttons does he have?
	Ans:

24	Four times of Ali's mass is equal to $\frac{2}{3}$ of Ali's mass to their total mass?	of Bala's mass.	What is the ratio
		·	
		Ans:	and the same of th
25	Chang had 90 stickers. The ratio of to the number of stickers Dali had wa Chang give to Dali so that both of ther stickers?	s 9:5. How ma	any stickers must
		Ans:	
26	The ratio of the number of apples to was 7:3 at first. After she bought 33 of the number of apples to the number the total number of apples and orange	Bapples and 33 c or of oranges bec	ranges, the ratio ame 5 : 3. Find
		Ans:	

27	Rosnie had \$16 at first. After John gave \$8 to Rosnie, he had thrice as much money as Rosnie. How much money did John have in the end?
	Ans: \$
28	How many 4-digit numbers are there such that each number gives 3000 when rounded to the nearest thousand? The digits 2, 3, 5 and 0 appear once in each number.
	Ans:
<b>.</b> 9	Lisa paid \$40.50 for a chocolate cake and 6 fruit tarts. Samuel paid \$25.50 for one such chocolate cake and 2 such fruit tarts. How much did one such chocolate cake cost?
	Ans: \$

30 Shop A and Shop B sell pens of four colours. The table below shows the number of pens sold by each shop in January. The number of blue pens sold by Shop A is not shown.

Colour	Number of pens sold by Shop A	Number of pens sold by Shop B
Red	140	120
Blue	?	335
Black	210	245
Purple	80	100

In January, 50% of the pens sold by Shop A were blue pens.

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
Shop A sold more blue pens than Shop B in January.			
The number of black pens sold by Shop B in January was twice the number of black pens sold by Shop B in February.			To do you are consistent of adjustment of a consistent of the consistence of the consiste
In January, 15% of the pens sold by Shop B were red pens.			2

End of Paper



NANYANG PRIMARY SCHOOL

# TERM 1 WEIGHTED ASSESSMENT 2022

### PRIMARY 6

### MATHEMATICS PAPER 2

Duration: 1 hour 30 minutes

### 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 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.

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)

Ji Eun had  $6\frac{3}{4}$  m of cloth at first. She used  $3\frac{7}{10}$  m of the cloth to make some shirts. She then bought  $4\frac{2}{5}$  m of cloth. How many metres of cloth did she have in the end?

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

The area of a rectangle is  $1\frac{11}{25}$  m<sup>2</sup>. What is the total area of 4 such rectangles?

Ans: \_\_\_\_\_\_ m<sup>2</sup>

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)

Ji Eun had  $6\frac{3}{4}$  m of cloth at first. She used  $3\frac{7}{10}$  m of the cloth to make some shirts. She then bought  $4\frac{2}{5}$  m of cloth. How many metres of cloth did she have in the end?

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

The area of a rectangle is  $1\frac{11}{25}$  m<sup>2</sup>. What is the total area of 4 such rectangles?

Ans: m²

3	The price of a pair of sneakers is \$190 before GST. What is the price of the sneakers after adding 7% GST?
•	
	Ans: \$
4	The average cost of a calculator and a storybook is \$36. The storybook
	costs $\frac{1}{3}$ as much as the calculator. What is the cost of the calculator?
	Ans: \$
;	At 9 a.m., a tap was turned on to fill an empty tank at a rate of 6 \( \ell \) per minute. At 9.05 a.m., another tap was turned on to fill the same tank at a rate of 3 \( \ell \) per minute. At what time were there 75 \( \ell \) of water in the tank?
	Ans:
	7410.

aces	estions 6 to 17, show your working cle provided. The number of marks ava of each question or part-question.	illable is shown in brack	vers in the cets [ ] al 45 marks)
4	8% of a number is 312.		
<b>(</b> 2	a) What is the number?		
(b	) What is 66% of the number?		
	Ans	s: (a)	[2]
		(b)	[1]
Th	ne prices of masks sold in a pharmac	y are shown in the table	below.
F	irst 50 masks	\$8.00	
N	lext 50 masks	\$0.15 per mask	
A	dditional masks above 100 masks	\$0.10 per mask	

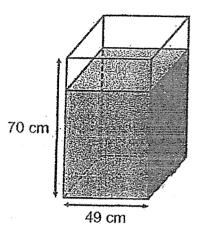
Ans:

space	uestions 6 to 17, show your working cle es provided. The number of marks ava nd of each question or part-question.	arly and write your answers in the ilable is shown in brackets [ ] at (45 marks)				
6	48% of a number is 312.					
	(a) What is the number?					
	(b) What is 66% of the number?					
-	An	e: (a) FOT				
	. Att	The second secon				
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		(b)[1]				
7	The prices of masks sold in a pharmacy are shown in the table below.					
	First 50 masks	\$8.00				
	Next 50 masks	\$0.15 per mask				
	Additional masks above 100 masks	\$0.10 per mask				
	Rose wants to buy 135 masks. What she has to pay?	is the least amount of money				

Ans:

[3]

A rectangular tank with a square base is  $\frac{5}{7}$  –filled with water as shown below. Find the volume of water in the tank. Give your answer in litres and millilitres.

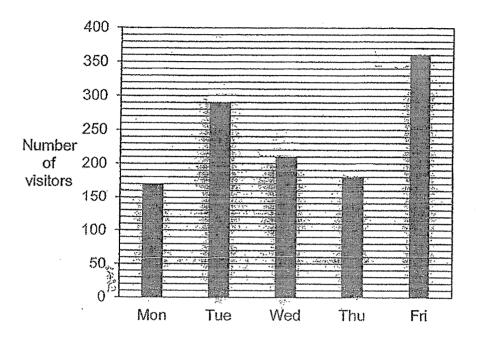


Ans:		[3]
	 	r_1

- 9 Mr Tan had 8 kg of peanuts in a sack at first. He packed the peanuts into bags. Each bag contained  $\frac{3}{8}$  kg of peanuts.
  - (a) What was the greatest number of bags he could fill with  $\frac{3}{8}$  kg of peanuts each?
  - (b) Find the mass of the peanuts left unpacked in the sack.

Ans:	(a)	 [1]	

The bar graph below shows the number of visitors to a park from Monday to Friday last week.

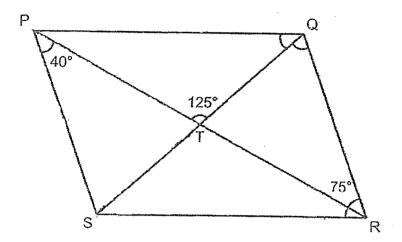


- (a) What was the average number of visitors from Monday to Friday last week?
- (b) The average number of visitors on Saturday and Sunday was twice the average number of visitors from Monday to Friday last week. Write down one possible set of values for the number of visitors on Saturday and Sunday.

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

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

PQRS is a parallelogram. PTR and STQ are straight lines.  $\angle$ SPT = 40°,  $\angle$ PTQ = 125° and  $\angle$ SRQ = 75°.



- (a) Find ∠PQT.
- (b) Find ∠TQR.

- At first, Tze Peng baked a total of 120 chocolate cupcakes and vanilla cupcakes. The ratio of the number of chocolate cupcakes to the number of vanilla cupcakes was 1:3 at first. He then bought some chocolate cupcakes. After that, 60% of the total cupcakes were chocolate cupcakes.
  - (a) What was the ratio of the number of vanilla cupcakes to the number of chocolate cupcakes in the end?
  - (b) How many chocolate cupcakes did Tze Peng buy?

Ans:	(a)	[1]
	(b)	[3]

In a library, 45% of the books are English books,  $\frac{3}{5}$  of the remaining books are Chinese books and the rest are Malay books. The difference between the number of Chinese books and Malay books is 176. How many English books are there in the library?

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

14	The original price of a washing machine was \$1380.	Iskandar bought
•	it at a 30% discount during a sale.	

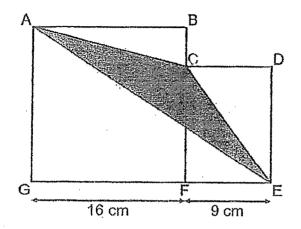
- (a) How much did Iskandar pay for the washing machine?
- (b) He paid \$76.80 for a hair dryer. The total discount for the washing machine and the hair dryer was \$465.20. Express the discount for the hair dryer as a percentage of its original price.

Ans:	(a)	[1]
	(b)	 [3]

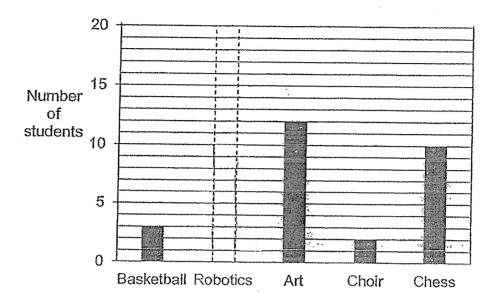
- Mrs Lim had some money at first. She spent  $\frac{1}{3}$  of it on a blouse and  $\frac{1}{6}$  of the remaining money on a skirt. After her husband gave her \$484, she then had the same amount of money as she had at first.
  - (a) How much money did she spend on the skirt?
  - (b) How much money did she have at first?

Ans:	(a)	Management of the Control of the Con	[2]
	(b)		[2]

In the figure below, ABFG is a square and CDEF is a rectangle. BCF and GFE are straight lines. CF is thrice as long as BC. Find the area of triangle ACE.



17 The bar graph below shows the Co-Curriculum Activities (CCA) the students in Class 6B joined. Every student in Class 6B joined only one CCA.



(a) Each student in Chess CCA paid \$9 to buy a Chess CCA t-shirt. The amount of money collected from the boys was \$18 more than the amount of money collected from the girls. What was the ratio of the number of boys to the number of girls in Chess CCA? Give your answer in the simplest form.

(b) The ratio of the number of students who joined Art CCA to the total number of students who joined Basketball CCA, Robotics CCA and Choir CCA was 4:5. Draw and shade the bar to show the number of students who joined Robotics CCA.

Ans:	(a)	[3]
,	100	 101

[2]

### 96 Mains WAI 2022

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 (20 marks)

- The number of cars is  $\frac{14}{24}$  of the number of motorcycles in a carpark. What is the rails of the number of motorcycles to the number of cars in the carpark? Give your answer in the simplest form.
  - COM- -> M: C 7:12 (1)
  - 24:14 (2) 12:7
  - (3) 14:24
  - 12:7 (ans) (4) 24:14
- What is the value of 29 400 + 700?
  - (1) 32 (2) 42
  - (3)
  - 420

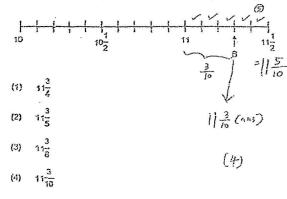
- What is the value of  $\frac{1}{4} \times \frac{12}{5}$ ?
  - · 本 等 = 是 (\*\*\*s) (1)
  - (2)
  - (1) (3)
  - (4)
- $\frac{6}{7}$  of a cake is cut equally into 12 slices. What fraction of the whole cake is each slice?

  - = 考 x 元2 (KFC)
  - = 14 Cars) . (1)
  - (4)

What is the value of  $\frac{11}{12} + \frac{3}{4} - \frac{1}{4}$ ?

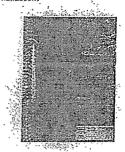
(4)

- 1- + = -1/23  $= \frac{11}{12} + \frac{9}{12} - \frac{3}{12}$ (4)
- In the number line below, what is the mixed number represented by B?



- Which of the following is the same as 10 007 g?
  - (1) 1.07 kg ( Kg = 1000g (2) 10,07 kg 10.007kg= 10 007g (3) 10.007 € (4) 100.07 kg (3)
- What is the value of 2.5 + 500?
  - 2.5 2500 (1) 5 (2) = 2-5 75 + 100 (3) 0.05 (4) 0.005 (4) 0.005 (445)
- There are 200 children in a comp. 130 of them are girls. What percentage of the children are boys?
  - 200-150=70 boys 30% (1) (2)35% 65%
  - 70% (4) = 35 % (ans) (2)

Which of the following is likely to be the mass of a Nanyang Primary School student handbook?



- (1) 20 kg
- (2) 29

2000 g (3)

(4)

- (4) 200 g
- The ratio of the number of red pins to the number of yellow pins to the number of green pins is 4: 5: 3. The total number of yellow pins and green pins is 120. How many red pins are there?

(1)

Y+G=120 R= Y = G

(2)60

(3) 95

(4)

8u=120

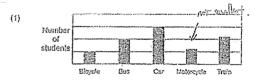
lu = 15

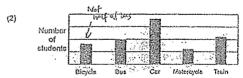
4 4 = 15x4=60 (ans)

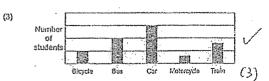
The lable below shows the modes of transport used by students in Class 6E to go to school.

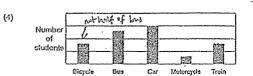
Mode of Transport	Bicycle	Ses	Car	Motorcycle	Train
Number of students	5	10	<b>1</b> 5	3	8
~	. A. P. D	[- Bus	taracet	Savollest	number

Which of the following ber graphs represents the information shown in the table above?

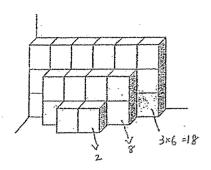








The solid below is built using 1-cm cubes. Find the volume of the solid.



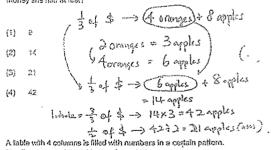
28 cm<sup>2</sup>

26 cm<sup>3</sup> (2)

2+8+18=28

(3) 20 cm3 28cm<sup>3</sup> (ous) (1)

fildin Nor used  $\frac{1}{3}$  of her money to buy 4 oranges and 6 applies. The cost of 2 elenges was the same as that of 3 apples. What was the greatest number of apples that Noir Nor could buy with hell of the money she had at first?



The first 6 rows of the table are shown below.

	Column A	Column B	Column C	Column D	_
Row 1	8	5 ,	4	3	J groups of !
Row 2	7 .	(B) with	g 9	10 .	
Row 3	14	13	12	11	
Row 4	15 .	(16)	17	18	
Row 5	22	21	20	19	
Row 6	23.	(24)	25	26	
:	. :	(રૂઝંડે)	33.7	358	
In which c	342 olumnyill tho	number 343 a	340 ppear?	339	
	343	34	378=	: 42R	1

Column A

42x8= 336 (ulum B) Colum

Column B (2)

Column C (3)

(4) Column D

7



NANYANG PRIMARY SCHOOL

#### TERM 1 WEIGHTED ASSESSMENT 2022

#### PRIMARY 6

#### MATHEMATICS PAPER 1 (BOOKLET B)

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 enswers in this booklet.
- The use of calculators is NOT allowed.

Name:	(	,
Class: Primary 6 ( )		

Booklet B

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

Jones has \$10. He spends 956 on a sandwich and 800 on a drink, How much money does Jones have left?

Alice and Betty donated a sum of money to charity. 40% of the sum of money was donated by Alice. Betty donated \$480. Find the total sum of money donated by Alice and Betty.

Ans: \$ 800

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 truly. stated.

Find the value of 100 + (25 - 15) + 8 × 7:

$$= \frac{100 \div (25 - 15) \div 8 \times 7}{100 \div (35 - 15) \div 8 \times 7}$$

$$= \frac{100 \div (35 - 15) \div 8 \times 7}{100 \div (35 - 15) \div (35 - 15)}$$

$$= \frac{100 \div (35 - 15) \div 8 \times 7}{100 \div (35 - 15) \div (35 - 15)}$$

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Find the value of 10 +  $\frac{3}{8}$ . Give your answer as a mixed number in 6.5

$$(0 \stackrel{?}{=} \frac{3}{8}) = 10 \times \frac{8}{3} \times (KFC)$$

$$= \frac{8}{3} = 26 \stackrel{?}{=} (80) \times 100 \times 1$$

Jannie used 350 g of flour to bake 7 burs. How many such burs could she bake with 250 g of flour?

Ans:

Questions 21 to 36 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 unite stated.

(20 marks) (ednom 03)

Mrs Ong had some potted plants at first. After she sold 240 potted plants, she was left with 20% of the poiled plants she had at first. How many polled plants did she have at first?

Mr Menon had  $\frac{5}{6}$  kg of sugar. He packed all the sugar into packets of

5 18 kg each. How many such packets of sugar did ha pack?

Ismail has 350 buttons.  $\frac{2}{5}$  of the buttons are red and the rest are blue. How many blue buttons does he have?

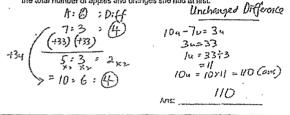
Four times of All's mass is equal to  $\frac{2}{3}$  of Bala's mass. What is the ratio of All's mass to their total mass?

ACITAL	
BILLII	
方: "Flat	
: 1+6 =   = 7 (ans) Ans: -	i = 7 ·

25 Chang had 90 stickers. The ratio of the number of stickers Chang had to the number of stickers Dail had was 9 : 5. How many stickers must Chang give to Dail so that both of them would have the same number of stickers?

C = D = total	14-2=1
	9u=90
( 2 2)2	lu=10
$-2u\left(-\frac{9:5:14}{-7:70:14}\right)$	Ju= 10x2=20 (ans)
7:70:14	. 20
	Ans:

The ratio of the number of apples to the number of oranges Jisoo had was 7:3 at first. After she hought 53 apples and 33 oranges, the ratio of the number of apples to the number of oranges became 5:3. Find the total number of apples and oranges she had at first.



30 Shop A and Shop B sell pens of four colours. The table below shows the number of pens sold by each shop in January. The number of blue pens sold by Shop A is not shown.

Colour	Number of pens sold by Shop A	Number of gens sold by Shop B
Red	140	120
Blue	50%)	335
Black	N 210	(245)
Purple	03	100

In January, 50% of the pens sold by Shop A ware blue pens.

30 50% →140 +210 +80 = 430 (blu)

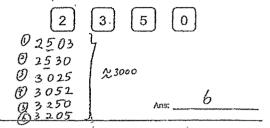
Each of the statements is either true, false or not possible to tell from the information given. For each statement, put a tick (  $\checkmark$  ) to indicate your

answer.			
Statement	True	False	Not possible to tell
(430) Shop A sold more blue pens than Shop B in January. (33.5)	V		
The number of black pens sold by Shop B'in January was (who the number of black pens sold by Shop, B in February. 245 is not destruce 1,12 to get at the land of the sold pens of the sold pense.		·	
In January, 15% of the pens sold by Shop B were red pens.	V		
120 × 100% = 15% (fre)			

End of Paper

27 Rosnie had \$16 at first. After John gave \$8 to Rosnie, he had thrice as much money as Rosnie. How much money did John have in the end?

28 How many 4-digit numbers are there such that each number gives 3000 when rounded to the nearest thousand? The digits 2, 3, 5 and 0 appear once in each number.



29 Lisa paid \$49.50 for a chocolate cake and 6 fruit tarts. Samuel paid \$25,50 for one such chocolate cake and 2 such fruit tarts. How much did one such chocolate cake cost?

$$-\frac{1C+6T=40.5}{1C+2T=25.5}$$

$$+T=40.5-25.5$$

$$=15.$$

$$2T=15?3$$

$$=7.5$$

$$1C=25.5-7.5 \text{ Ans: } 5 | 8$$

$$= 7(6 \text{ (as.)})$$

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 enswers in the units stated.

Ji Eun had  $6\frac{3}{4}$  m of cloth at first. She used  $3\frac{7}{10}$  m of the cloth to make some shirts. She then bought  $4\frac{2}{5}$  m of cloth. How many motres of cloth did she have in the end?

	7 9/20	
Ans:	*	m

The area of a rectangle is  $\frac{11}{25}$  m<sup>2</sup>. What is the total area of 4 such rectangles?

For quadions 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.

46% of a number is 312.

(a) What is the number? 
$$1\% \rightarrow \frac{312}{48}$$
  
(b) What is 86% of the number?  $100\% \rightarrow \frac{312}{42} \times 100$   
 $2650 \text{ (ans (a))}$ 

The prices of masks sold in a pharmacy are shown in the table below.

First 50 masks	\$8.00
Next 50 masks	\$0.15 per mask
Additional masks above 100 masks	\$0,10 per mask

Rose wants to buy 135 masks. What is the least amount of money

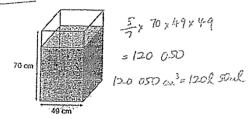
The price of a pair of sneakers is \$190 before GST. What is the price of the sneakers after adding 7% GST?

The average cost of a calculator and a storybook is \$33. The storybook costs  $\frac{1}{3}$  as much as the calculator. What is the cost of the calculator?

$$\begin{array}{l} \text{Total} \rightarrow 36 \times 2 \\ = 72 \\ \text{SB} \rightarrow lu \\ \text{C} \rightarrow 3u \end{array} \begin{array}{c} 4u = 472 \\ lu = 572 \div 4 \\ = 518 \\ 3u = 142 \times 3 = $574 \text{ (Auss)} \end{array}$$
Ans: \$574

At 9 a.m., a top was turned on to fill an empty tank at a rate of 6 t per minute. At 9.05 a.m., another top was turned on to fill the same tank at a rate of 3 ( per minute. At what time were there 75 t of water in the

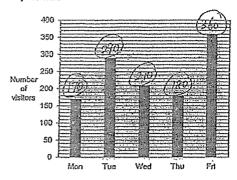
A rectangular tank with a square base is  $\frac{5}{7}$  -filled with water as shown below. Find the volume of water in the tank. Give your answer in litres and militities.



- Mr Tan had 8 kg of peonute in a cack at first. He packed the peonuts into bags. Each bag contained  $\frac{3}{8}$  kg of peanuls.
  - (a) What was the greatest number of bags he could fill with  $\frac{3}{a}$  kg of
  - (b) Find the mass of the peanuts left unpacked in the sack.

8: 
$$\frac{3}{8} = \frac{8}{5} \times \frac{8}{3} = \frac{1}{3} \times \frac{8}{3} = \frac{1}{3} \times \frac{21}{3} = \frac{1}{3} \times \frac{21}{3} = \frac{1}{3} \times \frac{31}{3} = \frac{1}{3} \times \frac{31}{3} = \frac{1}{3} \times \frac{21}{3} = \frac{11}{3} \times \frac{31}{3} = \frac{11}{3} \times \frac{31}$$

The bar graph below shows the number of visitors to a park from Monday 10 to Friday last week.



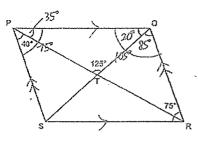
- (a) What was the average number of visitors from Monday to Friday last
- The average number of visitors on Saturday and Sunday was twice the average number of visitors from Monday to Friday last week. Write down one possible set of values for the number of visitors on Saturday and Sunday.

900 . 68 121

- At first, Tze Peng baked a total of 120 chocolate cupcokes and vanilla cupcakes. The ratio of the number of chocolete cupcakes to the number of vanilla cupcakes was 1:3 at first. He then bought some chocolate cupcakes. After that, 60% of the total cupcakes were chocolate cupcakes.
  - (a) What was the ratio of the number of vanilla cupcakes to the number of chocolate cupcakes in the end?
  - (b) How many chocolate cupcakes did Tze Peng buy?

CIVIEN	/120 total
In 34 Au	Amo 120
+? 60,10 40, 100, 20	14 = 12024
= 3 p 2p 5p	= 30 3u=30x3
/ Vic	= 90 Vanilla at 1st
D 2:3(946)	where the same property of the same same same same same same and the same same same same same same same sam
	2p = 90 1p = 90 = 2
	=45
	3p=45x3 =105 (ans)
	- 105 (112)

PQRS is a parallelogram. PTR and STQ are straight fines. ∠SPT = 40°, ∠PTQ = 125° and ∠SRQ = 75°.



- (a) Find ZPQT.
- (b) Find ∠TQR.

25 PQ = LSRQ Copy Lo of parallelogrow)

= 75°

LRPQ = 75°-40°

= 35°

LPRT = 180°-35°-125°

= 20° Cans)

LPRE = 180°-75°

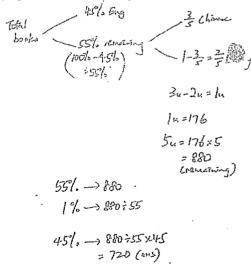
= 105°

LPRE = 105°-20°

= 85° Cans)

Ans: (a) 
$$\frac{20^{\circ}}{85^{\circ}}$$
 [2]

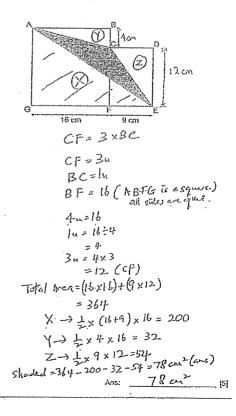
In a library, 45% of the books are English books,  $\frac{3}{5}$  of the remaining books are Chinese books and the rest ere Maley books. The Gillerence between the number of Chinese books and Malay books is 176. How many English books are there in the library?



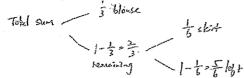
- 14 The original price of a washing machine was \$1380. Iskendar bought it at a 30% discount during a sale.
  - (a) How much did Iskander pay for the washing machine?
  - (b) He paid \$76.80 for a hair dryer. The total discount for the washing machine and the hair dryer was \$465.20. Express the discount for the hair dryer as a percentage of its original price.

Arie: (a) 
$$\frac{$966$}{40\%}$$
 [7]

10 In the figure below, ADFG is a square and CDEF is a rectangle. BCF and GFE are straight lines. CF is thrice as long as BC. Find the area of triangle ACE.



- 15 Mrs Lim had some money at first. She spent  $\frac{1}{3}$  of it on a blouse and  $\frac{1}{8}$  of the remaining money on a skid. After her husband gave her S484, she then had the same amount of money as she had at first.
  - (e) How much money did she sound on the skit?
  - (b) How much money did she have at first?



\$484 - Given by hudband, and in the and somme amount at 15t)
were when shed she had spent

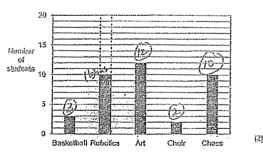
Stirt 
$$\rightarrow \frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$$
 $\frac{1}{3} + \frac{1}{9} = \frac{3}{9} + \frac{1}{9}$ 

blooc skirt  $= \frac{1}{4} \rightarrow 4844$ 
 $\frac{1}{9} \rightarrow 4124 \rightarrow 424$ 
 $\frac{1}{9} \rightarrow 4124 \rightarrow 424$ 

Ans: (a)  $\frac{1}{9} \rightarrow 1089$  [2]

10

17 The tar graph below shows the Co-Curiculum Activities (CCA) the students in Class 68 joined. Every student in Class 68 joined only one CCA.



(a) Each student in Chess CCA paid \$9 to buy a Chess CCA Estait. The amount of money collected from the boys was \$18 more then the amount of money collected from the girls. What was the ratio of the number of boys to the number of girls in Chess CCA? Give your answer in the simplest form.

(b) The ratio of the number of students who joined Art CCA to the total number of students who joined Basketball CCA, Robolics CCA and Choir CCA was 4:5. Draw and shade the bar to show the number of students who joined Robolics CCA.

11