

# END-OF-YEAR EXAMINATION 2022

#### PRIMARY 5

# 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 5 ( )	•	ţ	

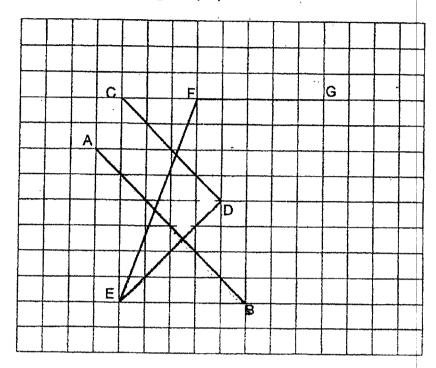
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

- 1 In 742.896, which digit is in the hundredths place?
  - (1) 6
  - (2) 7
  - (3) 8
  - (4) 9
- Which of the following is the same as 20 ml?
  - (1) 21
  - (2) 0.2 ₹
  - (3) 0.02 &
  - (4) 0.002 &

- There are 30 chocolate cookies, 18 raisin cookies and 48 butter cookies. What is the ratio of the number of chocolate cookies to the number of raisin cookies to the number of butter cookies?
  - (1) 5:3:8
  - (2) 3:5:8
  - (3) 5:3:6
  - (4) 6:3:8
- 4 Sindri worked for 30 hours. He was paid \$600. How much was he paid per hour?
  - (1) \$5
  - (2) \$2
  - (3) \$20
  - (4) \$50

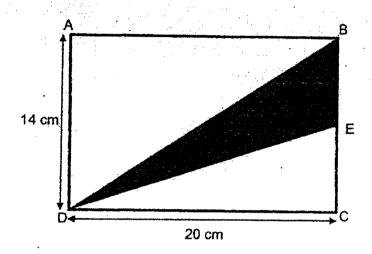
- Shahul had \$2500. He spent \$2000. What percentage of his money did he spend?
  - (1) 20%
  - (2) 25%
  - (3) 80%
  - (4) 125%
- There were 960 people in a concert. 60% of them were adults. How many adults were there at the concert?
  - (1) 384
  - (2) 576
  - (3) 588
  - (4) 768

Which line in the square grid is perpendicular to AB?

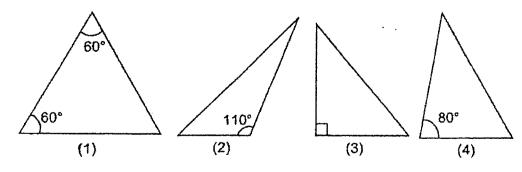


- (1) DE
- (2) EF
- (3) CD
- (4) FG

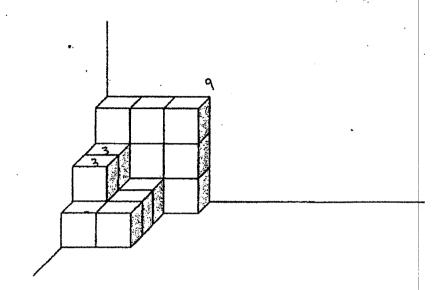
In the figure below, ABCD is a rectangle. E is a point on BC. BE is half the length of BC, DC = 20 cm and AD = 14 cm. Find the area of triangle BDE.



- (1) 35 cm<sup>2</sup>
- (2) 70 cm<sup>2</sup>
- (3) 140 cm<sup>2</sup>
- (4) 280 cm<sup>2</sup>
- 9 "Which of the following triangles is an equilateral triangle?



The solid below is formed by unit cubes. How many unit cubes are there?



- (1) 12
- (2) 17
- (3) 18
- (4) 26
- 11 Which one of the following fractions is closest to 2?
  - (1)  $2\frac{2}{3}$
  - (2)  $2\frac{1}{4}$
  - (3)  $1\frac{1}{6}$
  - (4)  $1\frac{7}{8}$

- Jasmine scored an average of 70 marks for a Mathematics test and a Science test. She scored 68 marks for the Mathematics test. How many marks did she score for the Science test?
  - (1) 66
  - (2) 69
  - (3) 72
  - (4) 138
- Mandy had 408 t of milk. She poured all the milk into 400 bottles. Each bottle contained the same amount of milk. How many litres of milk did each bottle contain?
  - (1) 1.02
  - (2) 1.2
  - (3) 10.2
  - (4) 12

- Noah bought  $\frac{7}{8}$  kg of grapes. He ate  $\frac{1}{3}$  of it. How many kilograms of grapes had he left?
  - (1)  $\frac{5}{12}$
  - (2)  $\frac{7}{12}$
  - (3)  $\frac{7}{24}$
  - $(4) \frac{13}{24}$
- Mrs Tan cooks 0.35 kg of rice every day. How many kilograms of rice does she cook in 60 days?
  - (1) 2.1
  - (2) 3.5
  - (3) 18
  - (4) 21



## NANYANG PRIMARY SCHOOL

# **END-OF-YEAR EXAMINATION** 2022

## PRIMARY 5

# **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.

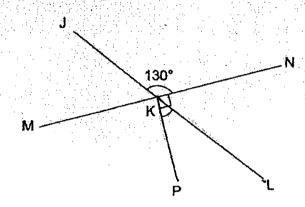
Name:		(	)
Class: Primary 5 (	)		

**Booklet B** 125

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

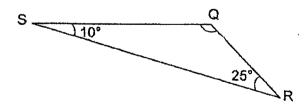
bic	prestions 16 to 20 carry 1 mark each. Write your answers in the space ovided. For questions which require units, give your answers in the units ated.  (5 marks)
16	
	Ans:
	Find the value of 923 ÷ 4. Express your answer as a decimal.
	Ans:
8	What is the missing number in the box?  4:7 = 32:
	Ans:

19 In the figure below, JKL and MKN are straight lines. ∠NKP = 90° and ∠JKN = 130°. Find ∠PKL.



Ans:

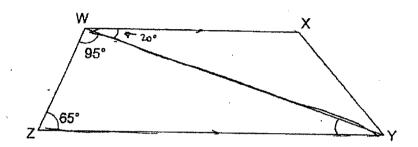
In the figure below, QRS is a triangle.  $\angle$ QSR = 10° and  $\angle$ QRS = 25°. Find  $\angle$ SQR.



Ans: \_\_\_\_\_°

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)

In the figure below, WXYZ is a trapezium. WX // ZY, ∠ZWY = 95° and ∠WZY = 65°. Find ∠YWX.

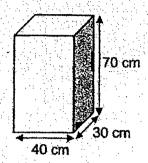


Ans: \_\_\_\_\_o

Mrs Tan had some money at first. She spent  $\frac{2}{3}$  of her money on a watch and  $\frac{1}{5}$  of her money on food. She had \$100 left. How much did she have at first?

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

What is the volume of the cuboid shown below?



Ans:		cm <sup>3</sup>
------	--	-----------------

24 Find the average cost of the 3 items as shown below.



\$36



\$29.50

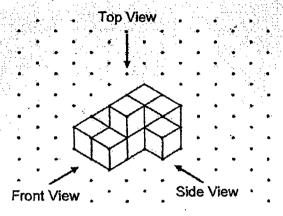


\$42.50

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

25	The mass of a book is 3.08 kg.	Find the total mass of	6 such books.
		•	
,			
	•		
		Ans:	kg
26	The drink stall sold 2651 packet packet drinks sold in February widninks sold in January. How mai Round your answer to the nearest	as 44 more than the numbers were so	mber of packet
		Ans:	
27	Mrs Singh deposits \$15 000 in the an interest of 4% per year. How at the end of one year?	e bank for one year. T much will Mrs Singh ha	he bank offers ve in her bank
	 .,		
٠			
		Ans: \$	
·			

Nana stacked 10 unit cubes and glued them together to form the solid below.

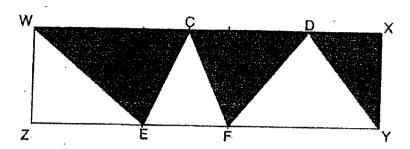


Draw the top view and the side view of the solid on the grids below.

			T	op '	Vie	W			
	•	٠	٠	٠	٠	•	•	٠	
	٠	•	٠	٠	٠	•	•	•	
	•	•	•	٠	•	•	•	٠	
	•	٠	•	٠	٠	٠	٠	•	
	4	٠	•	•		٠	•	•	
	٠	٠	٠	•	•	٠	•	•	
	•	•	٠	•	•	•	•	•	
	•	•	•	•	•	•	•	•	
	•	•	٠	•	•	•	•	•	
1									

					<del>,,,</del>			
		Si	de	Vie	w			
•		•	•	٠	٠	٠	٠	
•	•	٠	•	٠	٠	•	٠	
•	٠	•	٠	•	•	٠	•	
•	٠	•	•	•	•	•	٠	
•	٠	•	٠	٠	٠	٠	•	
٠	٠	•	٠	٠	•	٠	٠	
•	٠	•	٠	•	•	٠	•	
•	•	•	٠	٠	•	٠	•	
	٠	٠	•	•	•	٠	•	

In the figure below, WXYZ is a rectangle. The area of rectangle WXYZ is 552 cm². C and D are points on WX. E and F are points on ZY. Find the total area of the shaded parts.



Ans:		cm <sup>2</sup>
------	--	-----------------

The average mass of Mei Mei and her cousins was 45 kg. Mei Mei's mass was 53 kg. The average mass of her cousins was 43 kg. How many cousins did Mei Mei have?

Ans:	
------	--

End of Paper



# END-OF-YEAR EXAMINATION 2022

#### **PRIMARY 5**

# 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 5 ( )		
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)

Sarah spent  $1\frac{1}{4}$  h in the morning to complete her Science project.

She spent  $1\frac{7}{10}$  h in the afternoon to complete her Chinese project.

What was the total amount of time she spent on completing both her Science and Chinese projects?

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

The side of a square is  $6\frac{2}{5}$  cm. What is the perimeter of the square?

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

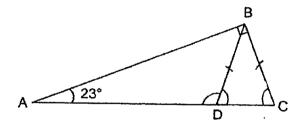
3 The table below shows the number of books sold in Everygreen bookshop from January to May.

À				· · ·	
	January	February	March	April	May.
	88	75	82	69	71

What was the average number of books sold from January to May?

Áns:	
------	--

In the figure below, ABC is a right-angled triangle. D is a point on AC. ∠BAC = 23°, ∠ABC = 90° and BC = BD. Find ∠BDA.



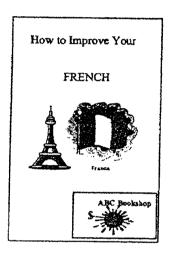
Ans:	•	٥

Junie bought a book from ABC Bookshop. She had forgotten how much she paid for the book. However, she remembered that the book cost \$30 when rounded to the nearest dollar.

She remembered the following about the cost of the book:

- It showed 2 decimal places.
- All the digits are different.
- The digits she saw in the tenths and hundredths places are 1, 4 or 5.

How many possible costs of the book are there?



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)

6 Anna and James had the same amount of money at first. Anna bought some pens and had \$4.30 left. James wanted to buy highlighters only. The number of highlighters that James wanted to buy was the same as the number of pens Anna bought. However, he was short of \$8.70. Each pen cost \$1.20 and each highlighter cost \$2.50. How much money did Anna have at first?

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

7 The Art Museum offers tickets on discount as shown in the flyer below.

	ART MUSEUM
* MOXET	TICKET SALE
	Usual price: \$16 per ticket

Buy 1 ticket at 10% discount

Buy 2 or more tickets at 20% discount

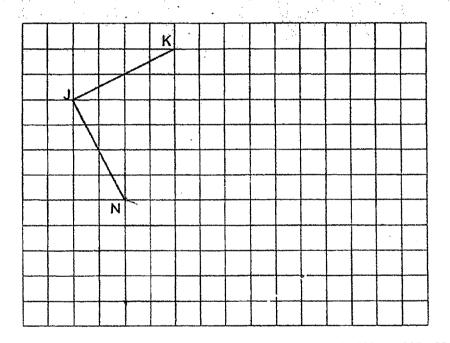
(a) Mr Lim bought 1 tick	et. How much did he pay?
--------------------------	--------------------------

paid?

		Ans:	(a)	[1]
b)	Mr Tan bought 3 tickets.	What was	the le	east amount of money ha

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

- 8 In the square grid below, JK and JN are straight lines.
  - (a) JK and JN form two sides of a square JKLN. Complete the drawing of the square JKLN. [1]
  - (b) JK and JN form two sides of a trapezium JKMN. KM is parallel to JN. Complete the drawing of trapezium JKMN such that the area of JKMN is 1 1/2 times of the area of JKLN. [2]



9 Chin Lee is 12 years older than Ming Shi. In 5 years' time, the ratio of Ming Shi's age to Chin Lee's age will be 5:9. How old is Chin Lee now?

Ans:		[3]

10	The average of 8 numbers is 45. When 2 of the numbers are removed, the average of the remaining numbers is 32. The difference between the 2 numbers that are removed is 6.
	(a) Find the sum of the remaining numbers.
	Ans: (a) [1]
	(b) What are the 2 numbers that are removed?

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

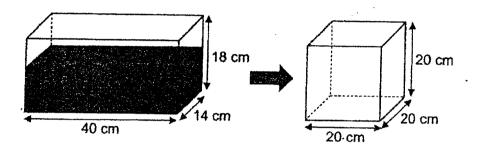
- 11 Farhana baked some cupcakes.  $\frac{1}{5}$  of the cupcakes were chocolate cupcakes and the rest were banana cupcakes. She sold  $\frac{4}{7}$  of the chocolate cupcakes and 51 banana cupcakes. She then had  $\frac{2}{5}$  of the cupcakes left.
  - (a) How many chocolate cupcakes did she sell?

		i	
Ans:	(a)		[2]

(b) How many cupcakes did she bake in all?

Ans:	(p)	[2]

12 A tank measuring 40 cm by 14 cm by 18 cm was  $\frac{3}{4}$ -filled with water as shown below. All the water in the tank was poured into a cubical container of sides 20 cm.



(a) How much water was in the tank at first?

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

(b) How many more litres of water are needed to fill the cubical container to the brim?

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

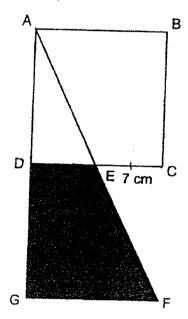
13	Kean Yew had 7200 shuttlecocks.	He packed the shuttlecocks into as
	many bags of 7 shuttlecocks as pos	sible and had some shuttlecocks left
	unpacked. He sold all his shuttleco	ocks and received \$3608. Each bag
	of shuttlecocks was sold at \$3.50.	
	(a) How many shuttlecocks were le	eft unpacked?

Ans:	(a)	 [1	]	

(b) Each of the shuttlecocks left unpacked was sold at the same price. How much did each of the shuttlecocks left unpacked was sold at?

Ans: (b) \_\_\_\_\_[3]

The figure below shows a right-angled triangle AFG and a square ABCD overlapping each other. ADG is a straight line. ∠AGF = 90°, DC = GF and EC = 7 cm. The length of AB is twice the length of EC. Triangle AFG has the same area as square ABCD.



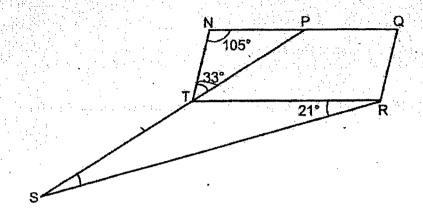
(a) What is the area of square ABCD?

Ans: (a)	[2]	Ì
----------	-----	---

(b) Find the shaded area DEFG.

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

15 In the figure below, NQRT is a parallelogram. P is a point on NQ and PTS is a straight line. ∠NTP = 33°, ∠PNT = 105° and ∠TRS = 21°.



(a) Find ∠RST.

Ans:	(a)	[3]
A115.	(0)	1

(b) Circle the words that describe triangle RTS correctly in the following statement.

Triangle	RTS	{	is /	is not	)	an	isosceles	triangle	because
RT (	is /	is	not	) equal	to	ST			
									E43

[1]

- 16 Cindy had a piece of ribbon. She used  $\frac{2}{7}$  of the ribbon to make 15 small identical bows and 7 large identical bows. The length of ribbon used for 3 large bows was the same as the length of ribbon used for 5 small bows.
  - (a) How many large bows can she make with the same length of ribbon used for 15 small bows?

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

(b) How many small bows can she make with  $\frac{3}{10}$  of the remaining ribbon?

17 Hon Lee formed some figures using squares and circles as shown below.

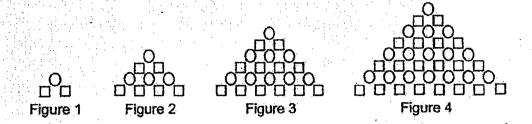


Figure	1	2	3	4 ·
Number of circles	1	4	9	16
Number of squares	2	6	12	20
Total number of circles and squares	3	10	21	36

(a) Find the number of circles in Figure 8.

Ans:	(a)	 [1]

(2	7 ********	nguie	iii uie pa	mem na	is 930 sq	uares?		
			·				•.	
						) Figu	re	(2)
(c)	Find the	total	number	of circ			iņ Figure	
			·					
				The state of the s	(c) _			[2]

End of Paper

# Jongey Primay Schoo)

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

PS 2022 End of Year

SA D

Paper 1

In 742.896, which digit is in the hundredths place?

4.4		11.	1.11	щ,	100	٠.
17	Second	deci	mal	P	loos.	-

- (1) 6
- (2) 7
- (3) 8
- .....
- 2 Which of the following is the same as 20 ml?
  - (1) 21

12 = 1000 ml

- (Z) 0.21
- (3) 0.021
- \$ (0001 + 0C) = 1m oc
- (4) 0.002 ₺

= 0.02 &

(3)

There are 30 chocolate cooldes, 18 raisin cooldes and 48 butter coolde What is the raise of the number of chocolate cookies to the number

chocolote : Taisin : burter

- 1 8-3-8
- AND THE RESERVE OF THE PARTY OF
- (3) 5:3:6
- (4) 8:3:8
- Sinds worked for 30 hours. He was paid \$600. How much was he paid per hour?



- (2) \$2 = 2 Ed = 3
- (3) \$20
- ny sau = \$20
  - (3)

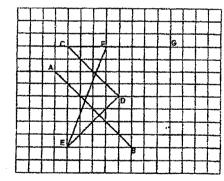
- 5 Shahul fied \$2500. He spent \$2000. What percentage of his money did he spend?
  - (1) 20% 2500 = 2
  - (2) 25% = 90
  - (3) 80% = 80 %
    - (3)
- 6 There were 980 people in a concert. 80% of them were adults. How many adults were there at the concert?
  - (1) 384
  - (2) 576

150 % → 960

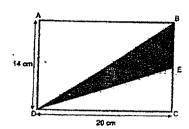
- 1 % -> 960 ÷ 100
  - = 9.6

- (4) 768
- 60% → 9.6 ×60
  - = 9.6 x10 x6
  - = 96 ×6
  - = 576
- (2)

7 Which line in the square grid is perpendicular to AB?



- (1)" DE
- (2) EF
- (3) CD
- (1)
- (4) FG



(1) 35 cm²

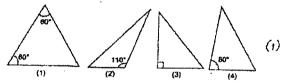
(2) 70 cm²

(3) 140 cm² THEO OF ABOR > 3 XXV X7

280 cm²

= 10 17 = 70

Which of the following briangles is an aquilateral triangle?



Jasmine scored an everage of 70 marks for a Mathematics test and a Science test. She scored 68 marks for the Mathematics test. How many marks old she score for the Science test?

(3)

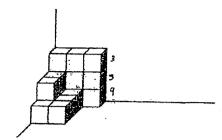
(3)

Mandy had 408 t of milk. She poured all the milk into 400 bottles. Each bottle contained the same amount of milk. How many litres of milk did each bottle contain?

(4)

(1)

The solid below is formed by unit cubes. How many unit cubes are



(1)

- (2) 17
- (3)

(2)

- (4)
- Which one of the following fractions is closest to 2?

(1) 
$$2\frac{2}{3}$$
 difference  $\Rightarrow \frac{2}{3}$ 

(3) 
$$1\frac{1}{8}$$
 deference  $\rightarrow \frac{5}{6}$ 

(4)

(4) 
$$1\frac{7}{8}$$
 difference  $\rightarrow \frac{1}{8}$ 

Noah bought  $\frac{7}{8}$  kg of grapes. He als  $\frac{1}{3}$  of it. How many kiloproms of grapes had he left?

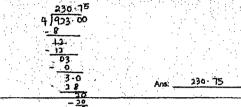
(2)

15 Mrs Tan cooks 0.35 kg of rice every day. How many kitograms of rice does she cook in 80 days?

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

Find the value of  $14 + (30 - 18) \times 5 \times 2$ .

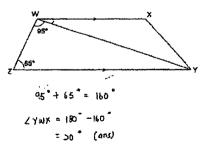
Find the value of 923 + 4. Express your



56

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)

In the figure below, WXYZ is a trapezium. WX // ZY,  $\angle$ ZWY = 95° and  $\angle$ WZY = 85°. Find  $\angle$ YWX



22 Was Tan had some money at first. She spent  $\frac{2}{3}$  of her money on a watch and \$ of her money on food. She had \$100 left. How much did she have at first?

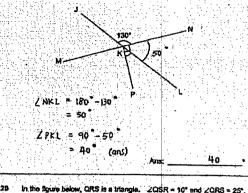
$$1 - \frac{2}{3} - \frac{1}{5} = 1 - \frac{10}{15} - \frac{3}{15} = $4750 (ans)$$

$$= \frac{2}{15}$$

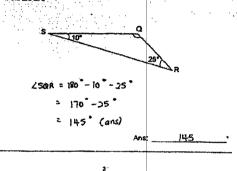
$$= \frac{2}{15} \rightarrow $100$$

$$= \frac{2}{15} \rightarrow $100 + 7$$
Ans. \$\frac{7}{50}\$

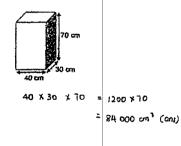
In the figure below, JKL and MKN are straight lines.  $\angle$  NKP = 90° and  $\angle$  JKN = 130°. Find  $\angle$ PKL.



In the figure below, QRS is a triangle. ZQSR = 10° and ZQRS = 25°.

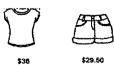


What is the volume of the cuboid shown below?



84 000 000

Find the average cost of the 3 items as sh



Total -> \$36 + \$29.50 + \$42.50 = \$108

\$108 + 3 = \$36 (ans)

Ans: \$\_34 ρ<sub>₫</sub> 3 25 The mass of a book is 3.08 kg. Find the lotal mass of 6 such books.

3.08 x 6 = 18.48 (ons)

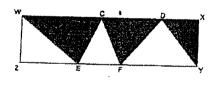
Ana:	18.48	kg

26 The drink stall sold 2851 packet drinks in January. The number of packet drinks sold in February was 44 more than the number of packet drinks sold in January. How many packet drinks were sold in February? Round your answer to the nearest ten.

Ans:	 2700

Are Singh deposits \$15 000 in the bank for one year. The bank offers an interest of 4% per year. How much wit Mrs Singh have in her bank at the end of one year?

28 In the figure below, WXYZ is a rectangle. The area of roctangle WXYZ is 552 cm². C and D are points on V/X. E and F are points on ZY. Find the total area of the shaded parts.



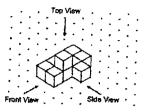
552 = 2 = 276 (ans)

The average mass of Mei Mel and her cousins was 45 kg. Mei Mel's - mess was 63-kg.— The average mass of her cousins was 43-kg.—Howmany cousins did Mei Mei have?

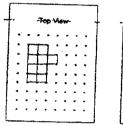
408: \_\_\_\_4

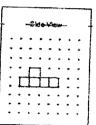
End of Paper

28 Name stacked 10 unit cubes and glued them together to form the solid below.



Draw the top view and the side view of the solid on the grids below.





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)

1. Sarsh spent 1 1/4 h in the morning to complete her Science project. She spent 1 1/40 h in the afternoon to complete her Chinese project. What was the total amount of time she spent on completing both her. Science and Chinese projects?

	4, 4	- 14		
•	Ans:	 220	·	ì

PS 2022

Paper 2

SA >

The side of a square in  $6\frac{2}{5}$  cm. What is the perimeter of the square?

Ans:	25 <sup>3</sup> / <sub>5</sub>	CIT
------	--------------------------------	-----

Junie bought a book from ABC Bookshop. She had forgotten how much she paid for the book. However, she remembered that the book cost \$30 when rounded to the pearest dollar.

She remembered the following about the cost of the book:

- It showed 2 decimal places.
- All the digits are different.
- The digits she saw in the tenths end hundredths places are 1, 4 or 5.

How many possible costs of the book are there?



Ane: \_\_\_\_6

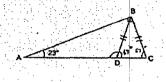
The table below shows the number of books sold in Everygraen bookshop from January to May.

٠				ш.		
	January	February	March	П.	April	May
	88	76	B2	1	69	71

What was the average number of books sold from January to May?

The state of the s

4 In the figure below, ABC is a right-angled briangle. D is a point on AC. ∠BAC = 23°, ∠ABC = 90° and BC = 8D, Find ∠BDA.



∠ACB = 180° -90° - 23° = 67° = 480c

2 608 = 120 - 47 = = 113 \* (ans)

n3

for questions 6 to 17, show your working clearly and write your enswars in the spaces provided. The number of marks available is shown in brackets [ ] at the and of each question or part-question. [45 marks]

Anne and James had the same amount of money at first. Anne bought some pers and had \$4.30 left. James waited to buy highlighters only. The number of highlighters that James waited to buy was the same as the number of pens Anna bought. However, he was short of \$8.70. Each pen cost \$1.20 and each highlighter cost \$2.50. How much money did Anna have at first?

the cost of highlighters and pers

\$2.50 - \$1.30 = \$1.30

bidifference between 1 highlighter and 1 pen

\$13 4 \$1-30 = 10

\$1.20 % 10 = \$12

\$12 + \$4.30 = \$16.30 (ans)

Ans: \$16-50. [3]

The Art Museum offers tickets on discount as shown in the flyer below.



Buy 1 ticket at 10% discount

Buy 2 or more lickets at 20% discount

(B) Mr Lim bought 1 ticket. How much did he pay?

Ans: (a) 314-40 [1]

(b) Mr Ten bought 3 lickets. What was the least amount of money he

Ans: (b) \$38.40 (2)

- The average of 8 numbers is 45. When 2 of the numbers are removed, the average of the remaining numbers is 32. The difference between the 2 numbers that are removed is 8
  - (a) Find the sum of the remaining numbers.

Ans. (a) [92 [1]

(b) What are the 2 numbers that are removed?

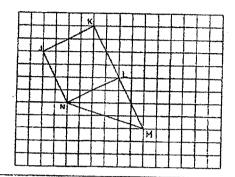
168 - 6 = 163

81 +6 = 87 (and)

8 in the square grid below, JK and JN are straight linea.

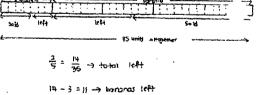
(a) JK and JN form two sides of a square JKLN. Complete the

(b) JK and JN form two sides of a trapezhen JKMN. KM is parallel to JN. Complete the strewing of trapezium JKMN such that the area of JKMN is  $1\frac{1}{2}$  times of the area of JKLN,



Chin Lee is 12 years older than Ming Shi. In § years' time, the ratio of Ming Shi's age to Chin Lee's age will be  $5 \div 9$ . How old is Chin Lee

- 11 Farmans baked some cupcakes.  $\frac{1}{5}$  of the cupcakes were chocolate cupcakes and the rest were banana cupcakes. She sold  $\frac{4}{7}$  of the sold chocolate cupcakes and 51 banana cupcakes. She then had  $\frac{2}{5}$  of the



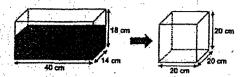
$$734 = 28$$
 If units = 3.64  
 $28 - 11 = 17$   
17 units = 51  
1 unit = 51 + 17  
= 3 Ans. (a) 12 [2]

(b) How many cupcakes dk! she bake in all?

Ans. (b) <u>21</u> <u>F7</u> [2]

Ans (5) 105 [2]

12 A tank measuring 40 cm by 14 cm by 18 cm was <sup>3</sup>/<sub>4</sub> filled with water as shown below. All the water in the tank was poured into a cubical container of sides 20 cm.

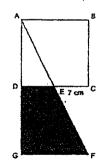


(a): How much water was in the tank at first?

Ans: (8) 7560 cm [2]

(b) How many more lives of water are needed to fill the cubical container to the brim?

- (b) <u>0.44.9</u> [2]
- 14 The Squire below shows a right-angled triangle AFG and a square ABCD overtapping each other. ADG is a straight line. ZAGF = 90°, DC = GF and EC = 7 cm. The length of AB is twice the length of EC. Triangle AFG has the same area as square ABCD.



(a) What is the area of square ABCO?

Ans: (a) 196 cm 2 [2]

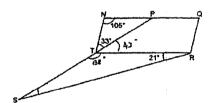
(b) Find the shaded area DEFG.

Ans: (b) 147 cm 2 [2]

- 3 Keen Yew had 7200 shuttlecocks. He packed the shuttlecocks into as many bags of 7 shuttlecocks as possible and had some shuttlecocks left unpacked. He sold at his shuttlecocks and received \$3608. Each bag of shuttlecocks was each at \$3.50.
  - (a) How many shuttlecocks were left unpacked?

(b) Each of the shufflecocks left unpacked was sold at the same price. How much did each of the shufflecocks left unpacked was sold at?

15 In the figure below, NORT is a parallelogram. P is a point on NO and PTS is a straight line. \( \times \) NTP = 33°, \( \times \) PNT = 105° and \( \times \) TRS = 21°.



(a) Find ZRST.

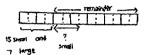
(b) Circle the words that describe triangle RT\$ correctly in the following statement.

- 16 Clindy had a place of ribbon. She used <sup>2</sup>/<sub>7</sub> of the ribbon to make 15 small identical hows and 7 large identical bows. The length of ribbon used for 3 large bows was the same as the length of ribbon used for 5 small bows.
  - (a) How many large bows can she make with the same length of ribbon used for 15 small bows?

$$5 \div 5 = 3$$
  
 $3 \times 3 = 9$  (qn)

Ans: (a) 9 [5

(b) How many small bows can she make with  $\frac{3}{10}$  of the remaining ribbon?



$$\frac{2}{4} = \frac{1}{11} \rightarrow 15 \text{ small} + 7 \text{ large}$$

$$\rightarrow 9 \text{ large} + 7 \text{ large}$$

$$\rightarrow 16 \text{ large}$$

$$\frac{1}{11k} \rightarrow 1k + 4$$

$$= 4$$

$$\frac{3}{14} \rightarrow 4 \times 3$$

$$= 12 \text{ large}$$

$$\rightarrow (\frac{12}{3} \times 5) \text{ small} \quad \text{Ans: (b)} \quad \underline{20} \quad [4]$$

$$\rightarrow 20 \quad \text{small} \quad (\frac{201}{13})$$

(b) Which figure in the pattern has 930 squeres?

(b) Figure 30 [2]

(c) Find the total number of circles and equares in Figure 15.

with 
$$\rightarrow$$
 15 x 15 = 225  
squares  $\rightarrow$  15 x 16 = 240  
Total  $\rightarrow$  225 + 240 = 465 (ans)

(c)	465	_ {2
 		<b></b>

End of Pages

END

17 Hon Lee formed some figures using equares and circles as shown below.

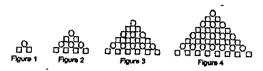


Figure	1	2	3	4
Number of circles	1	4 1X2=4	g 3x3:9	16 414
Number of squares	2 271	8 372	12 4×3	20 5×4
Total number of circles and aquares	3	10	21	38

(a) Find the number of circles in Figure 8.