

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)

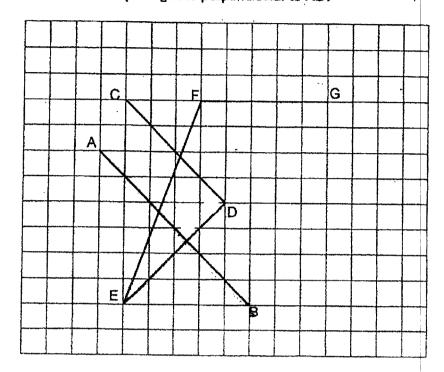
- 1 In 742.896, which digit is in the hundredths place?
 - (1) 6
 - (2) 7
 - (3) 8
 - (4) 9
- Which of the following is the same as 20 ml?
 - (1) 21
 - (2) 0.2 ₹
 - (3) 0.02 &
 - (4) 0.002 &

- 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

5	 Shahul had \$2500. He spent \$2000.	What percentage of his money	
	did he spend?		

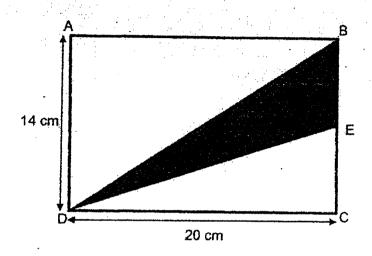
- (1) 20%
- (2) 25%
- (3) 80%
- (4) 125%
- There were 960 people in a concert. 60% of them were adults. How many adults were there at the concert?
 - (1) 384
 - (2) 576
 - (3) 588
 - (4) 768

Which line in the square grid is perpendicular to AB?

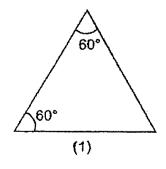


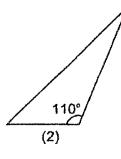
- (1) DE
- (2) EF
- (3) CD
- (4) FG

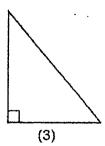
In the figure below, ABCD is a rectangle. E is a point on BC. BE is half the length of BC, DC = 20 cm and AD = 14 cm. Find the area of triangle BDE.

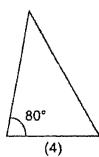


- (1) 35 cm²
- (2) 70 cm²
- (3) 140 cm²
- (4) 280 cm²
- 9 "Which of the following triangles is an equilateral triangle?

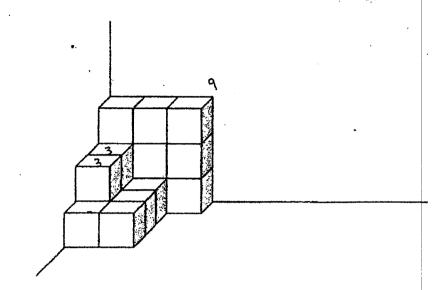








The solid below is formed by unit cubes. How many unit cubes are there?



- (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) $1\frac{7}{8}$

4	5.14								
12		Jasm	ine scored	an average	of 70 mod	ce for a	Matham		
10.0		. :: <u>⊿</u> ∀ [\$ 1		u.u.ug.	of 70 mark	ro in a	ividuren	aucs lest	and a
		Scien	ice test S	he scored	68 marks f		5 4 42		
	13.0			ing senten	oo marks i	or the	watnema	Mics test.	How
1	4, 3	many	marke did	nha aaasa ƙ	or the Scien		_ 1		
430	11:1	india.	THOING OIG	sile score l	or the Scien	ce 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



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.

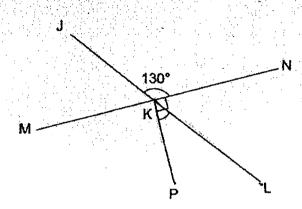
Name:		()
Class: Primary 5 ()		

Booklet B / 25

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

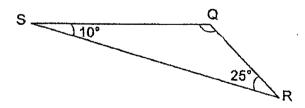
pic	uestions 16 to 20 carry 1 mark each. Write your answers in the spaces ovided. For questions which require units, give your answers in the units ated. (5 marks)
16	
	Ans:
17	Find the value of 923 ÷ 4. Express your answer as a decimal.
·····	Ans:
18	What is the missing number in the box?
	4:7=32:
·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

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



Ans:

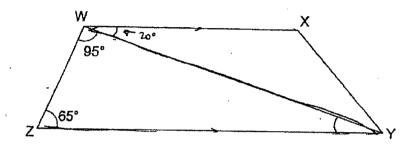
20 In the figure below, QRS is a triangle. \angle QSR = 10° and \angle QRS = 25°. Find \angle SQR.



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.

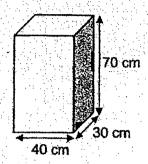


Ans: _____o

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: \$_____

23 What is the volume of the cuboid shown below?



Ans: ci	m ³
---------	----------------

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



\$36



\$29.50

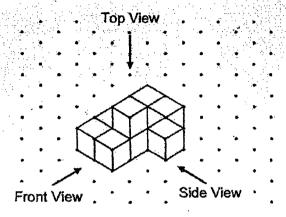


\$42.50

Ans: \$_____

25	5 The mass of a book is 3.08 kg. Find the total mass of 6 such book	oks.
	•	
-	Ans:	kg
26	The drink stall sold 2651 packet drinks in January. The numb packet drinks sold in February was 44 more than the number of purinks sold in January. How many packet drinks were sold in February packet drinks were sold in February packet drinks.	acket
	Ans:	
27	Mrs Singh deposits \$15 000 in the bank for one year. The bank of an interest of 4% per year. How much will Mrs Singh have in her bat the end of one year?	ffers bank
٠		
	Ans: \$	

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

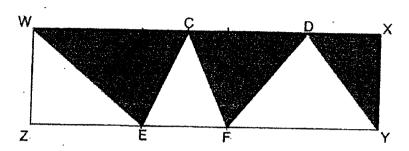


Draw the top view and the side view of the solid on the grids below.

		T	ор	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	•	•	•	

					,,,			
		Si	de	Vie	W			
•		•	•	٠	•		٠	
•	•	٠	•	•	٠	•	•	
•	٠	•	٠	•	•	٠	•	
•	٠	٠. ــ	. •	•	•	•	•	
•	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:		cm²
------	--	-----

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:	
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: ______

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

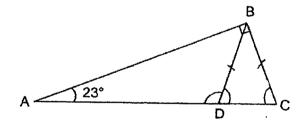
Ans: _____ cm

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

January	February	March	April	May
88	75	82	69	71

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

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.



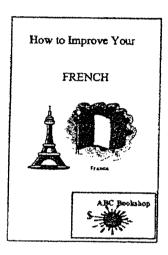
Ans:	•	٥

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)

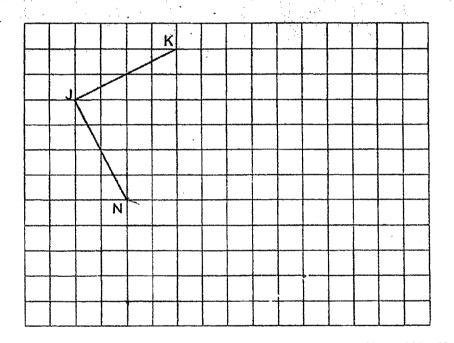
6 Anna and James had the same amount of money at first. Anna bought some pens and had \$4.30 left. James wanted to buy highlighters only. The number of highlighters that James wanted to buy was the same as the number of pens Anna bought. However, he was short of \$8.70. Each pen cost \$1.20 and each 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
*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 ticket. How much did he pay?
Ans: (a)[1
(b) Mr Tan bought 3 tickets. What was the least amount of money he paid?
paid ?
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]
, ., .o.	 1-3

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	ng numbers.					
			•				
	·						
		Ans: (a)	[1]				
	(b) What are the 2 numbers that	are removed?					
	•						
		Ans: (b)	, [2]				

11	Farhana baked some cup	cakes.	of the	cupcakes we	re chocolate
	cupcakes and the rest w		3		
					9
	chocolate cupcakes and 5 cupcakes left.	1 panana	cupcakes	. She then h	ad - of the

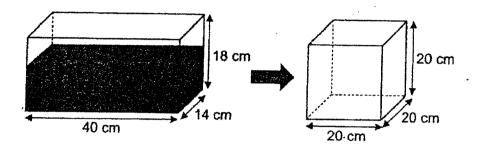
(a) How many chocolate cupcakes did she sell?

		i	
Ans:	(a)		[2]

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

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

(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 po	ssible and had some shuttlecocks left
	unpacked. He sold all his shuttlec	ocks and received \$3608. Each bag
	of shuttlecocks was sold at \$3.50.	

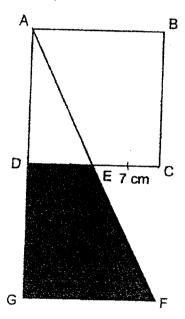
					مناسات
(a)	How many	v snuttie	COCKS W	ere lett u	npacked?

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.



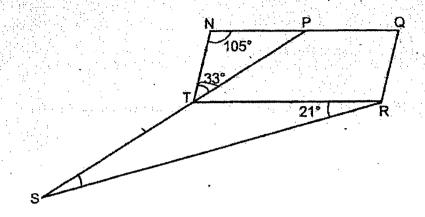
(a) What is the area of square ABCD?

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

(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	7	is not)	an	isosceles	triangle	because
RT (is /	is	not	t) equal	to	ST			
										[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	1
------	-----	--	----	---

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

Ans:	(b)		[4]
------	-----	--	-----

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

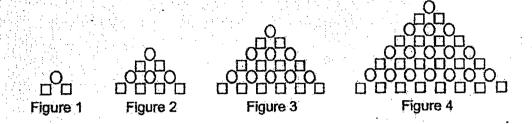


Figure	1	2	3	4 :
Number of circles	1	4	9	16
Number of squares	2	6	12	20
Total number of circles and squares	3	10	21	36

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

Ans:	(a)	 [1	

(b) Which figure in the pattern has 930 squares?
•
(b) Figure[2]
(c) Find the total number of circles and squares in Figure 15.
of offolds and squares in rigure 15.
(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 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

P5 2022 End of Year

SAD

Paper 1

In 742.696, which digit is in the hundredths place?

		-1.					
	. 1				1.0	6.90	
	-	4	second	deci	mal	. 10	Ø
٠		. 57			154	u di i	2000

- (1) 6
- (2) 7
- (3) 8

12 = 1000 ml

- (3) 0.02 (
- £ (0001+0c) = tm oc
- 0.002 ₹

= 0.02 £

(3)

chocolote : raisin : butter

- (4) 8:3:8 (1)
- - \$600 +30: = \$600 +10 +3
 - ÷ -₹60 ± 3
- - * \$20
 - (3)

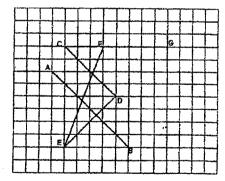
- Shahul had \$2500. He spent \$2000. What percentage of his money did he spend?

 - 100
 - = 80 %
 - (3)
- re 960 people in a concert. 80% of them were adults. How marry adults were there at the concert?

768

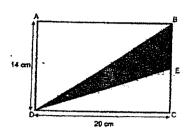
- 160% -> 960
- → 960 ÷ 100
- (4) 60 % → 9.6 ×60
 - = 9-6 x10 x6
 - = 96 ×6
 - = 576 (2)
 - Q; 16 576

Which fine in the square grid is perpendicular to AB?



- (1)" DE
- (1)

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 Viangle BDE.



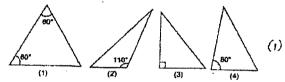
(1) 35 cm²

- (2) 70 cm²
- (4) 280 cm²

140 cm

(3)

- THEO OF ABOR > 3 XXV X7 = 10 17
 - - = 70 (2)
- Which of the following briangles is an equilateral 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 did the score for the Science test?

- (1)
- = 140
- (2)
- 140 68 = 72
- (3)
- 138

- (3)
- Mandy had 408 t of milk. She pound all the milk into 400 bottles. Each bottle contained the same amount of milk. How many litres of milk did each bottle contain?

(1)

= 100 ± 100

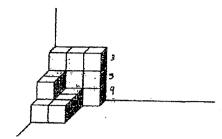
(2) 1,2

-1.02

- (3)
- (4) 12

(1)

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



(1) 12

- (2) 17
- (3) 18

(2)

(4)

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

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

- difference -> 1
- deference -> 5
- (4) difference -> is
- Noah bought $\frac{7}{8}$ kg of grapes. He als $\frac{1}{3}$ of it. How many kiloproms of grapes had he left?

(1)

(3)

- (4)
- Mrs Tan cooks 0.35 kg of rice every day. How many kilograms of rice does she cook in 80 days?

0.35 ×60 = 0.35 × 10 × 6

(1) 2.1

= 3.5 %6

(2)

(2) 3.5

= 21

- (3)
- (4) 21

- (4)

Questions 15 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)

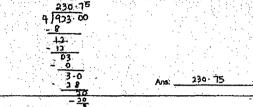
16 Find the value of 14 + (30 - 18) + 5 x 2.

= 14 + 2 X2

= 14 +4

= 18 (ans) Ans:

17 Find the value of \$23 + 4. Express your answer as a decimal



18 What is the missing number in the box?

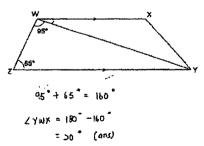
4:7=32:

37 = 4 = 8 7 x8 = 56 (ons)

Ans: 56

Ouestions 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 In the figure below, WXYZ is a trapezium. WX // ZY, ZZWY = 95° and ZWZY = 85°. Find ZYWX.



Anš: _______2o...

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

$$1 - \frac{2}{5} - \frac{1}{5} = 1 - \frac{10}{15} - \frac{3}{15} \longrightarrow $50 \times 15$$

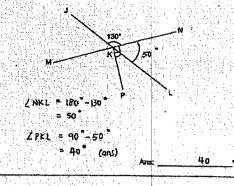
$$= $150 (ans)$$

$$\frac{2}{15} \longrightarrow $100$$

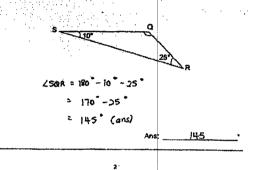
$$\frac{2}{15} \longrightarrow $100 \div 7$$

$$= $50$$
Ans. \$ 750

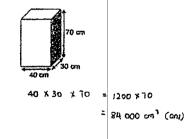
19 In the figure below, JRC and MRN are straight lines. ZNKP = 90° and ZIKN = 130°. Find ZPR.



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



23 What is the volume of the cuboid shown below:



Ans: <u>84 000</u> cm³

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



\$29.50

则

34 . 29-50 4 42-50 108 - 00

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

\$108 + 3 = \$56 (ons)

Ans: \$_36____

ρ**g** 3

25 The mass of a book is 3.08 kg. Find the lotal mass of 6 such books.

3.08 x6 = 12.48 (ons)

Ana:	18.48	kg

The drink stell sold 2651 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.

	2700
Ans:	 2700

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

100 % -> \$15 000 1 % -> \$15 000 = 100 = \$150 4% -> \$15024

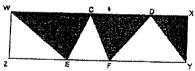
= \$600

\$600 + \$15000 = \$15 600 (09) Ara: \$ 15 600

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

5





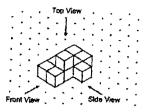
552 = 2 = 276 (ans)

The average mass of Mei Mei and her cousms was 45 kg. Mei Mei s mess-was 63-kg... The average mass of her cousins-was 43 kg...-How-many cousins did Mei Mei havi have?

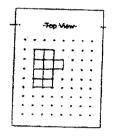
276 cm2 .

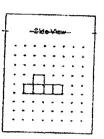
End of Paper

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



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





and the second second second second second

your answers in the spaces provided: For questions which require units, give your answers in the units stated. (10 marks) (10 marks)

Sarch sport 12 h in the morning to complete her Science project. She spent $1\frac{7}{40}$ h in the alternoon to complete har Chinese project. What was the total amount of time she spent on completing both her Science and Chinese projects?

4, 1	14	
Ans:	 256	3

The side of a square is $0.\frac{2}{5}$ cm. What is the perimeter of the square?

	25 3 5	
Ans:	233	Ç,

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

any possible costs of the book are there?



\$ 29.51 2 \$30 \$29.54 ≥ \$30 \$30-14 \$ \$30 \$30.41 = \$50 \$30.45 ± \$30

Ane:

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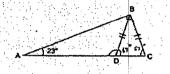
Paper 2

bookshop from January to May.

٠.				1	
	January	February	March	April	May
,	88	76	82	69	71

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

In the Spure below, ABC is a right-angled blangle. D is a point on AC. ∠BAC = 22", ∠ABC = 90" and BC = 8D, Find ∠BDA.



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

Anna and James had the same amount of money at first. Anna boughtrunse and James had the same amount of money at first. Anna bought some peris and had \$4.30 left. James waited to buy highlighters only. The number of highlighters that James warted 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?

Ly difference behavior

the cost of highlighters

and pens

bdifference between 1

highlighter and I pen

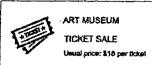
\$13 4 \$1-30 = 10

\$1.20 % 10 = \$12

\$12 4 \$4.30 = \$16.30 (ans)

Ans: \$16.50.

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



Buy 1 ticket at 10% discount

Buy 2 or more tickets at 20% discount

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

Ans: (a) \$14.40 [1]

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

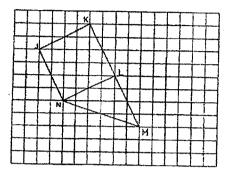
Ans: (b) \$39.40 [2]

- 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 <u>b 8</u>.
 - (a) Find the sum of the remaining numbers.

Ans. (a) [92 [1]

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

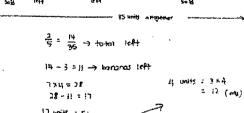
- 8 in the square grid below, JK and JN are straight lines.
 - (a) JK and JN form two sides of a square JKLN. Complete the drawing of the square JRLN.
 - (b) JK and JN form two sides of a <u>trapeztum JKNMN</u>. NOM is parallel to JN. Complete the traving of trapeztum JKNMN such that the area of JKNMN is 1¹/₂ times of the area of JKNN. [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 \$ 2.9. How old is Chin Lee now?

11 Famans based some cupcakes. $\frac{1}{5}$ of the cupcakes were chocolate cupcakes and the rest were bahana cupcakes. She sold $\frac{4}{7}$ of the cupcakes cupcakes and 51 bahana cupcakes. She then had $\frac{2}{5}$ of the cupcakes tell.

(a) How many chocolate outcokes did she settle

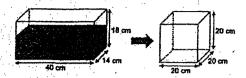


(b) How many cupcakes dk! she bake in all?

Ans. (b) 2] F7 [2]

Ans (b) 105 [2]

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



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

Ans: (a) 7560 cm [2]

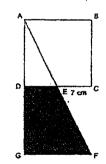
(b) How many more litres of water are needed to fill the cubical container to the brim?

\$ 000 - 7540. = 440

440 cm3 = 0.44 2 (ont)

(b) <u>0.44.8</u> [2]

14 The figure below shows a right-angled triangle AFG and a square ABCD overtapping 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 ABCO?

Ans: (a) 196 cm 2 [2]

(b) Find the shaded area DEFG.

Ans: (b) 147 cm 2 [2]

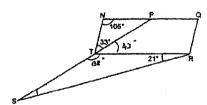
- 3 Keen Yew had 7200 shuttlecocks. He packed the shuttlecocks into as many bags of 7 shuttlecocks as possible and had some shuttlecocks left unpacked. He sold all his shuttlecocks and received \$3608. Each bag of shuttlecocks was end at \$3.50.
 - (a) How many shuttlecocks were left unpacked?

Ana: (a) 4 [1]

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

Ans: (b) \$1.50 [3]

15 In the figure below, NQRT is a parallelogram. P is a point on NQ and PTS is a straight line. ZNTP = 33°, ZPNT = 105° and ZTRS = 21°.



(a) Find ZRST.

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

Triangle RTS ((a) / is not) an isosceles triangle because RT ((s) / is not) equal to ST.

P5 7

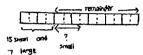
- 18 Clindy had a piece of ribbon. She used ²/₇ of the ribbon to make 15 small identical bows and 7 large identical bows. The length of ribbon used for 3 large bows was the same as the length of ribbon used for 5 small bows.
 - (a) How many large bows can she make with the same length of ribbon used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

$$5 \div 5 = 3$$

 $3 \times 3 = 9$ (and)

Aras: (a) 9 [5]

(b) How many small bows can she make with 3/10 of the remaining ribbon?



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

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

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

(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.

(c)	465	(2)

End of Paper

END

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



				,	
Figure	1	2	3	4	1
Number of circles	1	4 1X2=4	9 3%3:9	16 414:	1
Number of squares	2 271	8 332	12 4×3	20 5×4	
Total number of circles and squares	3	10	21	38	

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