

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 ()	•	

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 c	ligit is in	the hund	redths	place?
						P,

- (1) 6
- (2) 7
- (3) 8
- (4) 9

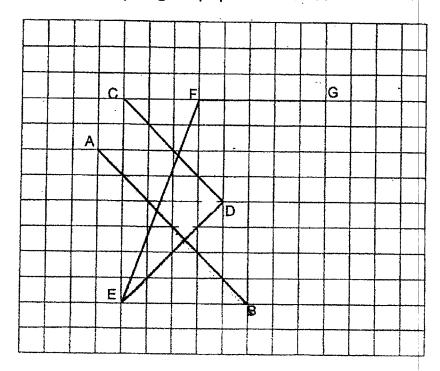
Which of the following is the same as 20 ml?

- (1) 21
- (2) 0.2 ₹
- (3) 0.02 &
- (4) 0.002 ₺

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

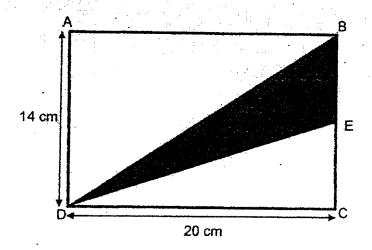
5		ahul had \$2500. He spent \$ he spend?	2000. What	percentage	of his	money
	(1)	20%				
	(2)	25% 80%	·			
	(4)	125%				
6	Ther man	re were 960 people in a cond y adults were there at the con	ert. 60% of acert?	them were a	dults.	How
	(1)	384			٠	
	(2)	576				
	(3)	588				
	(4)	768				

Which line in the square grid is perpendicular to AB?

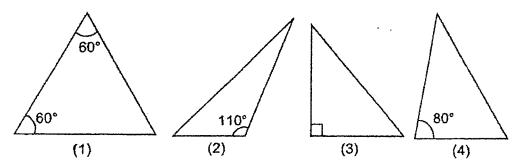


- (1) DE
- (2) EF
- (3) CD
- (4) FG

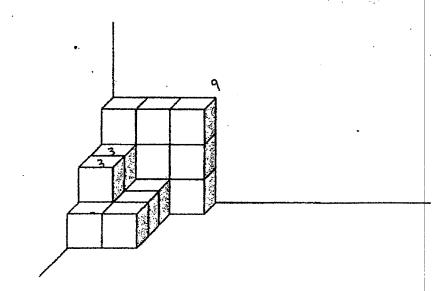
In the figure below, ABCD is a rectangle. E is a point on BC. BE is half the length of BC, DC = 20 cm and AD = 14 cm. Find the area of triangle BDE.



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

7.	2	Jas	mine s	cored an	average	of 70 marks	fora	Mathan		
	\$ 12°				go	of 70 marks	יוטו מ	i wanen	iaucs lest	and a
	2.	Sci	ence te	est. She	scored 6	8 marks for	r tha	Matham	ation tast	11
. A.	i. i i	144.				the Science	i urc	Man ici u	aucs test.	How

- (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.

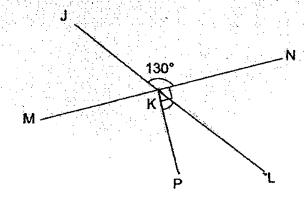
Name:	()
Class: Primary 5 ()		

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.

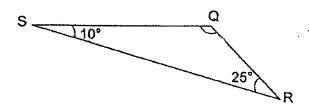
sta	ovided. For questions which require units, give your anited.	swers in the unit: (5 marks)
16	Find the value of $14 + (30 - 18) \div 6 \times 2$.	
		•
	Ans:	
17	Find the value of 923 ÷ 4. Express your answer as a	decimal.
	Ans:	
8	What is the missing number in the box?	
	4:7=32:	
	Ans:	

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



Ans: _____°

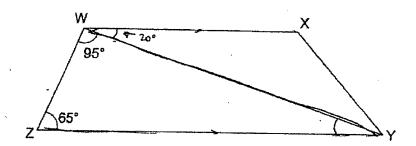
20 In the figure below, QRS is a triangle. \angle QSR = 10° and \angle QRS = 25°. Find \angle SQR.



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.

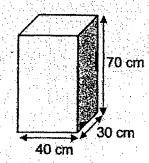


Ans: _____o

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: \$_____

What is the volume of the cuboid shown below?



Ans:	cm ³
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	O1 1 1

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



\$36



\$29.50

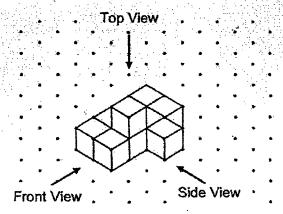


\$42.50

Ans: \$_____

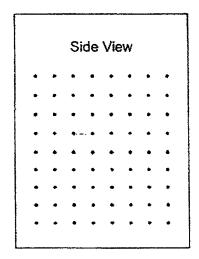
25	The mass of a book is 3.08 kg. Find the total mass of 6 such books.
,	
	Ans: kg
26	The drink stall sold 2651 packet drinks in January. The number of packet drinks sold in February was 44 more than the number of packet drinks sold in January. How many packet drinks were sold in February? Round your answer to the nearest ten.
	Ans:
27	Mrs Singh deposits \$15 000 in the bank for one year. The bank offers an interest of 4% per year. How much will Mrs Singh have in her bank at the end of one year?
	Ans: \$

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

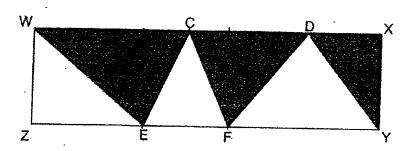


Draw the top view and the side view of the solid on the grids below.

		T	ор	Vie	W			
	•	٠	٠	•	•	•	٠	
•	٠	•	•	٠	•	•	•	
•	٠	•	•	•	•	٠	٠	
•	•	•	٠	٠	•	٠	•	
•	٠	٠	•		٠	•	•	
	٠	•	•	•	٠	•	٠	
•	•	٠	•	•	•	•	•	
•	•	•	•	•	•	•	•	
•	•	٠	•	•	•	•	•	
ł								



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:

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

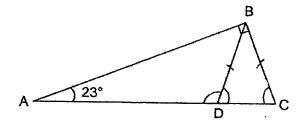
3 The table below shows the number of books sold in Everygreen bookshop from January to May.

January February	March	April	May
88 75	82	69	71

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

Ans:	
------	--

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.



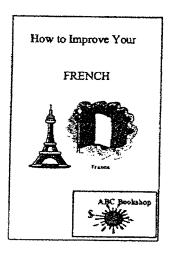
Ans: _____°

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)

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

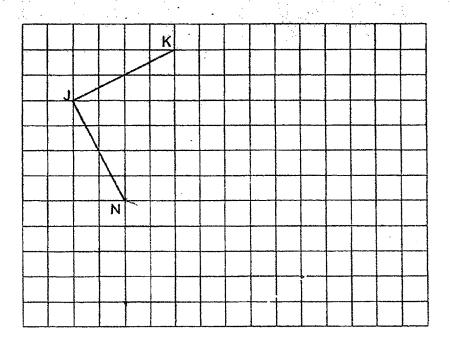
TICKET SALE

		Usual price: \$16 per ticket	
	Buy 1	Buy 1 ticket at 10% discount	
	Buy 2 or mo	ore 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?

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 $1\frac{1}{2}$ 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]	į
MII3.	[~]	1

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]
	, 110, (0),(2)

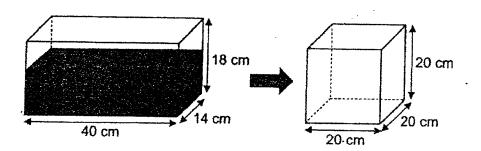
- Farhana baked some cupcakes. $\frac{1}{5}$ of the cupcakes were chocolate cupcakes and the rest were banana cupcakes. She sold $\frac{4}{7}$ of the chocolate cupcakes and 51 banana cupcakes. She then had $\frac{2}{5}$ of the cupcakes left.
 - (a) How many chocolate cupcakes did she sell?

Ans:	(a)	 [2]

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

Ans: (b) _____[2]

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?

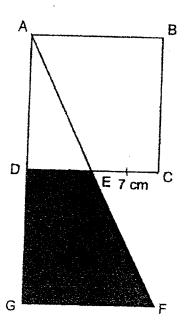
Ans:	(a)	•	[2
------	-----	---	----

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

(b) _____[2]

(a) How	v many shuttleco	cks were left unpacked?	
	•		
		, · · · · · · · · · · · · · · · · · · ·	
		Ans: (a)	til der la de la dela de
		ocks left unpacked was sold a	
Hov	v much did each	of the shuttlecocks left unpac	ked was so

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.



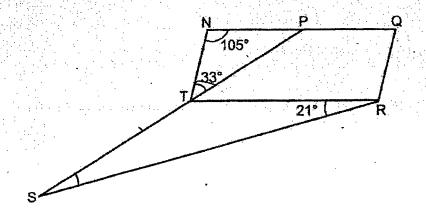
(a) What is the area of square ABCD?

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

(b) Find the shaded area DEFG.

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

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:	(2)	[3]
~\ I 15	101	101

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

Triangle RTS	{	is	1	is not)	an	isosceles	triangle	because
RT (is /	is	not) equal	to	ST	b		

[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]
Ans:	(a)	[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.

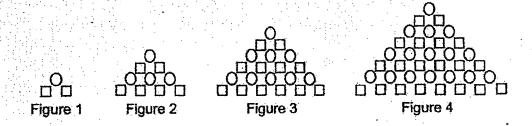


Figure	1	2	3	4 ·
Number of circles	1	4	9	16
Number of squares	2	6	12	20
Total number of circles and squares	3	10	21	36

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

Ans: (a) _____[1]

(b) Which figure in the pattern has 93	30 squares?
	•,
	•
	(b) Figure [2]
(c) Find the total number of circles a	and squares in Figure 15.
•	
	(c)[2]

End of Paper

Jongey Primay School)

Quastions 1 to 10 carry 1 mark each. Quastions 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 shade your answer on the Optical Answer. (20 merks)

95 DOJ] End of Year

SAD

Paper 1

1 In 742.896, which digit is in the hundredths place?

Ly second decimal place

- (1) 6
- (2) 7
- (3) 8
- (4)
- Which of the following is the same as 20 ml?
 - (1) 21
- 1e = 1000 me
- (2) 0.21
- (3) 0.02 t
- & (0001 + 0C) = 1m oc
- (4) 0.002 &
- = 0.02 2
 - (3)

- Shahul had \$2500. He spent \$2000. What percentage of his money did he spend?
 - (1) 20%
- = 20 25 2500
- 25%

= 80 100

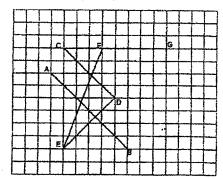
= 80 %

- (3)
- There were 950 people in a concert. 60% of them were adults. How many soults were there at the concert?
 - 384
- 100 % → 9100
- (3) 588
- 1% -> 960 = 100
- = 9.6

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

- There are 30 chocolate cooldes, 18 raisin cooldes and 48 butter cooldes. What is the raiso of the number of chocolate cooldes to the number of raisin cooldes to the number of butter cooldes?
 - chockate : misin : butter
 - (1) 5:3:8 • 18 - 48 30
 - (2) 3:5:8 . 8
 - (3) 5:3:6
 - (4) 8:3:8 (1)
- peld per hour?
 - 10 10 \$600 +30: = \$600 +10 +3
- ≈~₹60°±3
 - (3) \$20
 - * \$20
 - (3)

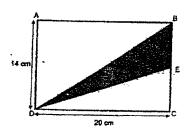
Which line in the square grid is perpendicular to AB?



- (1) DE
- (2) 55
- (1)

- (4)

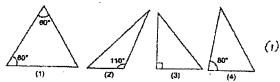
annugha is a Monet paule



- (1) 35 cm²
- Largen of BE = 14+2

- (2)
- (3) 140 cm
- THEO OF ABOR > \$ 100 FT
- (4) 280 cm²

- = 10 17 (2)
- = 70
- Which of the following briangles is an acculateral triangle?



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

- (1)
- = 140
- (2) 69
- 140 68 = 72
- (3) 72

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

(1) 1.02

= 100 ± 100

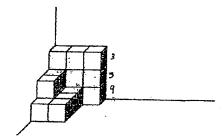
(2) 12

-1.02

- (3) 18.2
- (4) 12

(1)

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



- (1) 12
- 9+3+5 =17
- (2)
- (3) 18

(2)

(4)

- (4)
- Which one of the following fractions is closest to 2?
 - (1) $2\frac{2}{3}$ APPORTOR > 3
 - difference -> }
 - **(3)** deference -> 5
 - difference -> 10
- Noah bought $\frac{7}{8}$ kg of grapes. He als $\frac{1}{3}$ of it. How many kilograms of grapes had he left?

(1)

24

(2)

- = 7
- (3)

(2)

- (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) 3.5

= 21

(3) (4) 21

- (4)
 - 3 · 5 y 6 21 . 0

Questions 18 to 29 carry 1 mark each. Write your prevers in the spaces provided. For questions which require units, give your answers in the units

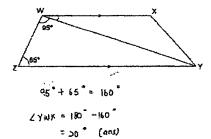
Find the value of $14 + (30 - 18) \times 6 \times 2$.

Find the value of 923 + 4. Expir

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 trapazium. WX // ZY, ZZWY = 95° and ZWZY = 85°. Find ZYWX



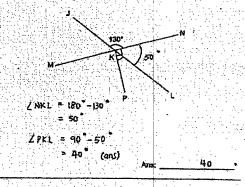
22 M/rs Tan had some money at first. She sperit $\frac{2}{3}$ of her money on a watch and $\frac{1}{5}$ of her money on tood. She had \$100 left. How much did she have at first?

$$1 - \frac{2}{3} - \frac{1}{5} = 1 - \frac{10}{15} - \frac{3}{15} = $150 (ans)$$

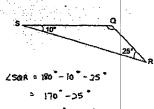
$$= \frac{2}{15}$$

± → \$100 15 -> \$100 47 \$50

In the figure below, JICL and MICN are straight lines. \angle NIOP = 90° and \angle JICN = 130°. Find \angle PICL



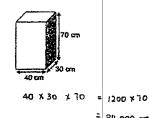
In the figure below, QRS is a triangle. Find ZSOR



= 145° (ans)

145

What is the volume of the cuboid shown be



84 000 cm³ (oni)

84 000

Find the average cost of the 3 items as six



\$29.50

\$42.50

Total -> 436 + \$29.50 + \$42.50

= \$108

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

25 The mass of a book is 3,08 kg. Find the lotal mass of 6 such books.

Ana: 18-48	kg
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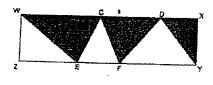
28 The drink stall sold 2651 packet drinks in January. The number of packet drinks sold in February was 44 more than the number of packet drinks sold in January. How many packet drinks were sold in February? Round your answer to the nearest ten.

Ane:	2700
Ans:	

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

4600 + \$15,000 = \$15,800 (41) Ara: \$ 15,600

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



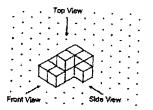
552 = 2 = 276 (ans)

Ans:	276	cm²

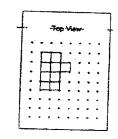
30 The average mass of Mei Mei and her cousins was 45 kg. Mei Mei's - mess-was 63-kg.—The average mass of her cousins was 43 kg.—Howmany cousins did Mei Mei have?

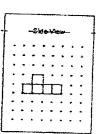
508: 4

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)

Sarsh spent 1 to In the morning to complete har Science project.

She spent 1 to In the afternoon to complete har Chinese project.

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

., .	14	
Ans:	 2.20	:

SA >

Paper 2

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

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 neurost dollar.

She remembered the following about the cost of the book:

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

How many possible costs of the book are there?



\$30.14 \$ \$30 \$30.14 \$ \$30 \$30.15 \$ \$30 \$30.41 \$ \$50 \$30.45 \$ \$30

An#: ____6

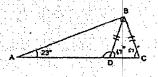
3 The table below shows the number of books acid in Everygreen
PS 2c21 bookshop from January to May.

٠				4.1	
	January	February	March	April	May
	88	76	B2	69	71

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

Ans ________

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



h3

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

6 Anne and James had the same amount of money at first. Anne bought some pens 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 Anne bought. However, he was short of \$8.70. Each pen cost \$1.20 and each highlighter cost \$2.50. How much money did Anne have at first?

Ly difference behavior the cost of highlighters

and pens

b difference between 1 bightighter and 1 pen

\$13 4 \$1-30 = 10

\$1-20 %10 = \$12

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

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?

100 -10 = 90

100 x \$16 = \$14.40 (ani)

Ans: (a) \$14.40 [1]

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

100-20= 80

题 x 排 = 初·80

\$13.80 × 3 = \$38.40 (ann)

Ans: (b) \$39.40 [2]

- 10 The average of 6 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.

8-2=6

32x6 = 192 (ans)

Ans. (a) [92 [1]

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

45 x 8 = 360

360 - 192: 168 - 3 sum of the 2 numbers namewed.

168-6 = 163

162 - 2 - 81 (ans)

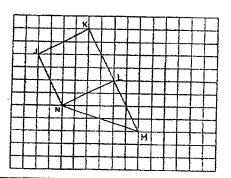
81 +6 = 87 (and)

8 in the square grid below, JK and JN are streight lines.

(a) JK and JN form two sides of a square JKI, N. Complete the drawing of the square JRI, N.

(b) JK and JN form two sides of a trapeztum JKMN. KM is parallel to JN. Complete the trawing of trapeztum JKMN such that the area

of JKMN is $1\frac{1}{2}$ times of the area of JHQ.N.



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 \$ 9. How old is Chin Lee

9-5=4

4 units = 12

1 tanif = 12 ÷ 4

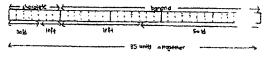
३ 3

9 units = 3 ×9

וני: רני:

77-5 = 32 (ans) Ans: 22 [3]

- Farmane based some cupcakes. $\frac{1}{5}$ of the cupcakes were chocolate cupcakes and the rest were banaha cupcakes. She solid $\frac{4}{7}$ of the chocolate cupcakes and 51 banaha cupcakes. She then had $\frac{2}{5}$ of that cupcakes tell.
 - (a) How many chocolete cupcakes did she sell?



= 14 - total 164

14 - 3 = 11 - > banconas 1eft

7x1 = 38 If units 3.8.4 28-i1 = 17 = 12. (eq.)

17 units = 5i1 unit $= 5i \neq i7$ Ans. (a) 12 [2]

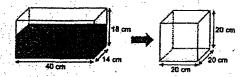
(b) How many cupcakes dk! she bake in all?

7 ×5 = 35

35 units = 3 x 35

= 165 (on)

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



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

表 40 x 14 x 18 = 7560 cm³ (ans)

Ans: (a) 7560 cm

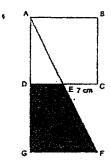
(b) How many more litres of water are needed to fill the cubical

2008 = 6CX OCX OC \$ 000 - 75to. = 440

440 cm3 = 0.44 & (ont)

0.44.8

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



(a) What is the area of square ABCO?

712=14

14 x 14 = 196 cm 2 (ans)

Ans: (a) 196 om 2 [2]

(b) Find the shaded area DEFG.

Avea of DADE = \$x7x14 = 49

196 - 49 = 147 cm2 (one)

11

Ans: (b) 147 cm 2 [2]

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

1200 ÷7 = 1028 R4

(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?

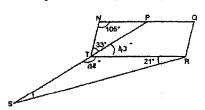
1028 X \$3-50 = \$3598

\$3608 - \$3598 = \$10

\$10 7 4 = \$ 2.50 (en)

Ans: (b) \$1.50 [3]

In the figure below, NQRT is a parallelogram. P is a point on NO and PTS is a straight line. \angle NTP = 33°, \angle PNT = 105° and \angle TRS = 21°.



(a) Find ZRST.

LSTR = 180 -42

= 138.

1857 = 180 - 158 - >1 " =)1 (anj)

Ans: (#)

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

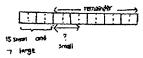
Triangle RTS ((a) / is not) an isosceles triangle because RT ((s) / is not) equal to ST.

- 16 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?

$$15 \div 5 = 3$$
 $3 \times 3 = 9 \text{ (and)}$

Are: (a) 9 [1]

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



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

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

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

$$\frac{1}{11} \rightarrow 16^{14}$$

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

(b) Figure 30 [2]

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

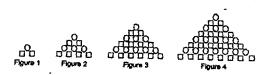
orde
$$\rightarrow$$
 15 x15 = 225
squares \rightarrow 15 x16 = 240
Total \rightarrow 225 + 240 = 465 (ans)

(c) 465	. (-
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End of Paper

END

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



				,	
Figure	1	2	3	4	ł
Number of circles	1	4	9 3×3±9	16 414	18
Number of squares	2 271	8 372	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.

Ans: (8) 64 [1]