

AI TONG SCHOOL

2022

END-OF-YEAR EXAMINATION PRIMARY 5

MATHEMATICS PAPER 1

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DURATIO		1 h 1 NOVEMBER 20:	22		
Follow all inst Answer all qu Shade your a	ver this partitions of estions.	nage until you are told to concarefully. In the Optical Answer Shell is NOT allowed.		provided	
Name:		(w	>		
Class: Prim	nary 5 _	•	Mar	ks:	
Parent's Sign Date	ature :		Par	per 1	45

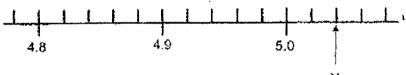
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Paper	1	Booklet	A
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Questions 1 to 16 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

- 1 Find the value of $(100 + 250 \div 10) \times 3$.
 - (1) 105
 - (2) 175
 - (3) 325
 - (4) 375
- Which of the following numbers when rounded to the nearest hundred becomes 61 400?
 - (1) 61 349
 - (2) 61 449
 - (3) 61 450
 - (4) 61 495
- 3 How many sixths are there in $4\frac{5}{8}$?
 - (1) 29
 - (2) 26
 - (3) 15
 - (4) 5

- 4 Which of the following is not equal to $\frac{1}{2}$?
 - (1) $\frac{1}{3} + \frac{1}{6}$
 - (2) $\frac{1}{4} + \frac{3}{8}$
 - (3) $\frac{1}{5} + \frac{3}{10}$
 - (4) $\frac{3}{7} + \frac{1}{14}$
- 5 What is the value of X in the scale below?



- (1) 5.04
- (2) 5.02
- (3) 5.2
- (4) 5.4
- A typist can type 160 words in 5 minutes. At this rate, how long does the typist take to type 320 words?
 - (1) 10 minutes
 - (2) 2 minutes
 - (3) 32 minutes
 - (4) 64 minutes

7 What is the missing number in the ?

7: = 3:15

- (1) 19
- (2) 21
- (3) 24
- (4) 35
- Four letters P, E, A, and R are shown below. How many of the letters has/have a line of symmetry?



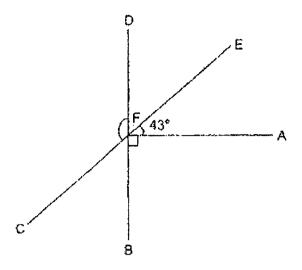






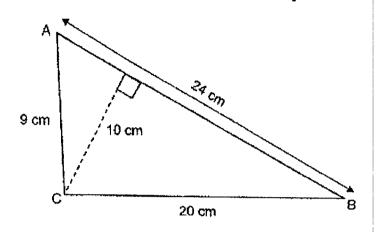
- (1)
- (2) 2
- 3) 3
- (4) · 4

9 In the figure below, AF, BD and CE are straight lines. ∠AFE = 43°. ∠AFB is a right angle. Find ∠CFD.



- (1) 141°
- (2) 137°
- (3) 133°
- (4) 129°

10 What is the area of triangle ABC?



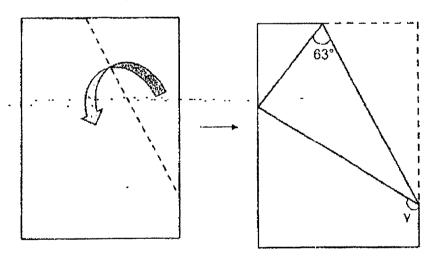
- (1) 90 cm²
- (2) 108 cm²
- (3) 120 cm²
- (4) 240 cm²
- The ratio of the cost of an eraser to the cost of a pen is 2:5. A ruler costs twice as much as the eraser. What is the ratio of the cost of the ruler to the cost of the eraser to the total cost of the three items?
 - (1) 2:4:5
 - (2) 4:2:5
 - (3) 2:4:11
 - (4) 4:2:11

The average mass of four boys is 52 kg. The masses of Cameron and James are shown in the table below. Leon and Zach are of the same mass each.

What is the total mass of Zach and Cameron?

Cameron	James	Leon	Zach
42 kg	56 kg	?	?

- (1) 55 kg
- (2) 92 kg
- (3) 97 kg
- (4) 110 kg
- Jovan had a piece of rectangular paper and folded it along the dotted line as shown below. Find Zy.



- (1) 117°
- (2) 126°
- (3) 144°
- (4) 153°

Which one of the figures below shows that 40% of the figure is shaded?

(1)

Figure A

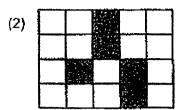


Figure B

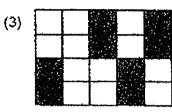


Figure C

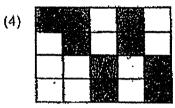
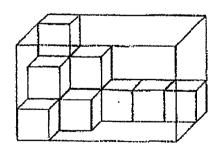


Figure D

- (1) Figure A
- (2) Figure B
- (3) Figure C
- (4) Figure D
- In the figure below, a rectangular glass box is filled with some 1-cm cubes. What is the volume of the rectangular glass box?



- (1) 8 cm³
- (2) 12 cm³
- (3) 33 cm³
- (4) 45 cm³

ques	ers in the spaces provided not the units stated. (5 m	arks)	
		Ans:	ml
17	Find the value of 0.32 x 40.		
		Ans:	

Mr Muthu bought 1 plush toy. He had to pay 7% GST. How much did Mr Muthu pay for the plush toy inclusive of GST?



Ans: \$.

20 Express $\frac{3}{8}$ as a decimal.

Ans:

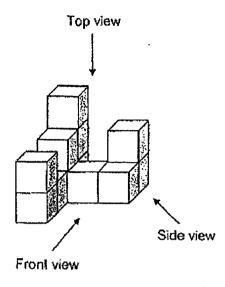
.

The figure below is r The area of the figure	nade up of 3 identical re is 24 cm². What is the	rectangles. he perimeter of the	e figure?
		Ans:	cm
Theo is making sor He makes 8 cookid	me cookies based on is each lime.	this cookie recipe	
	Mini chocotate co (Makes 8 cookie	1	
!		and the same of th	
	90 g flour100 g sugar40 g cocoa powde	er (S)	ya e e e e
He has 600 g of flor How many cookies	 100 g sugar 	280 g of cocoa p	owder.
He has 600 g of flot How many cookies	100 g sugar 40 g cocoa powde ur, 420 g of sugar and	280 g of cocoa p	owder.

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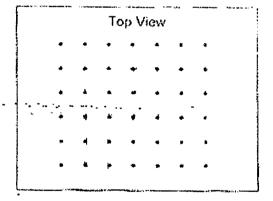
10

23 Joash stacked 12 unit cubes to form the solid below.



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

			Fre	ont \	/iew	r			
	•	•	•	•	٠	•			
	٠	٠	*	٠	•	•	•		
	•	•	•	•	•	•	٠		
•	. •	•	*	*	• •	•	•	:	. •
	•	٠	1-	٠	•	•	•		
	•	4			٠	*	٠		

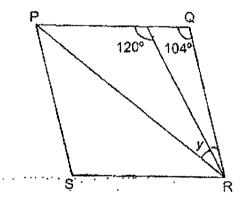


The time Janet spends on her piano, dance and swimming lessons is in the ratio of 5: 4: 3. She spends 8 hours on all these enrichment lessons. How much time does she spend on her dance lesson?

Leave your answer as a mixed number.

\ns:	h	
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25 In the figure, PQRS is a rhombus. Find \angle y.





More papers available at www.sgexams.com

26 Mrs Tan baked a cake. She gave $\frac{1}{3}$ of the cake to Shirley.

Then she gave $\frac{1}{6}$ of the remaining cake to Peter.

What fraction of the cake was Mrs Tan left with?

٨	~~			
~	ns	-	 	

27 The table below shows the charges of an inline sketes rental shop.

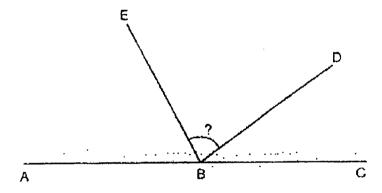
RENTAL CHARGES		
For the first 30 minutes	\$4	
For every subsequent $\frac{1}{2}$ hour or part thereof	\$2.50	i

Elaine and Alicia each rented a pair of inline skates for 3.5 hours. How much did they have to pay altogether?

Ans:	<u>\$</u>	
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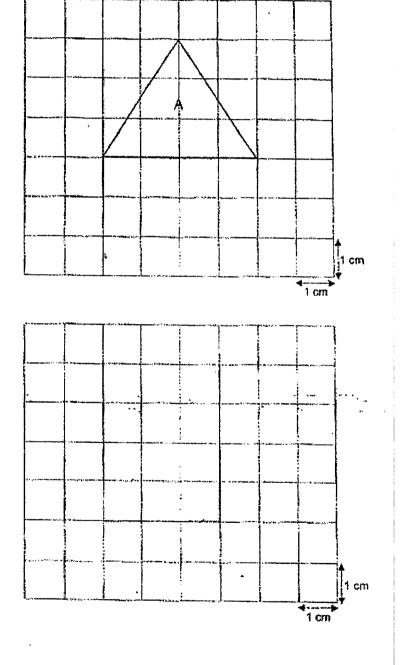
Deena had 20 fewer stamps than Joey at first. Deena gave 12 of her stamps to Joey. Joey now has 3 times as many stamps as Deena. How many stamps did Deena have at first?

29 ABC is a straight line. ∠ABD is 149° and ∠EBC is 118°. Find ∠EBD.



	Ans:	0
ATS 2022 P5 Math End-ol-Your Paper 1	$ \angle $	_4

30 Two 1-cm grids are shown below. Triangle A is drawn on the grid.
Draw a right-angled triangle with the same area as triangle A on the second grid below.



End of Paper



AI TONG SCHOOL

2022

END-OF-YEAR EXAMINATION

PRIMARY 5

MATHEMATICS PAPER 2

DATE	:	1 NOVEMBER 2022

DURATION: 1 h 30 min

INSTRUCTIONS

Do not open the booklet until you are told to do so. Follow all instructions.
Answer all questions.
You are allowed to use a calculator.

Name:()
Class: Primary 5	

Parent's Signature	b
Date	*
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N.	£	
W	arks	•

Paper 1	45
Paper 2	55
Total	100

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1	Patricia has 0.35 kg of flour. Mary has 0.68 kg more flour than Patricia.	** A P
	How much flour do they have altogether?	
	Ans:	k
2	After Patrick spent \$6 on a meal, he had \$24 left. What percentage of his money did he spend?	
	The second secon	
EU'S 4.4	Äns:	%
3	Mdm Koh paid \$266 for 8 swimming lessons. She paid the same amour each lesson. At this rate, how much would she need to pay for 6 lesson.	nt for s only?
	Ans: \$	

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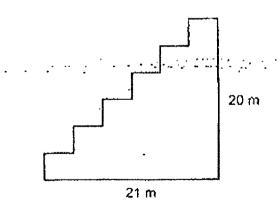
4 A shop opens daily for the time shown in the table below.

Opening hours
8.30 am to 12.30 pm
2 pm to 4.45 pm
5.30 pm to 9 pm

How many hours and minutes is the shop open each day?

Ans:	h_	min
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5 In the figure below, all lines meet at the right angles.
What is the perimeter of the figure below?

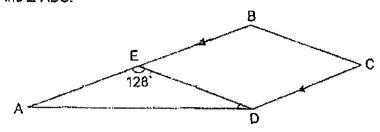


Ans: _____m

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

(45 marks)

In the figure, ABCD is a trapezium and BCDE is a rhombus. AE = ED. ∠ AED = 128°. Find ∠ ADC.



Ans:_____[3]

A wooden plank is sawed into two parts.

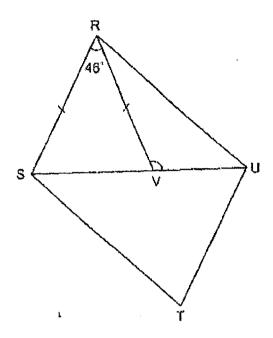
The first part is 3.75 m long. It is 1.38 m longer than the second part. How long was the wooden plank before it was sawed?

ATS 2022 P5 Meth End-of-Year Paper 2

There were 147 children and some adults at a carnival. $\frac{2}{3}$ of the adults were men and the rest were women. $\frac{2}{9}$ of the people at the carnival were women. How many people were at the carnival?

Ans: [3]

In the figure below, RSTU is a parallelogram. RS = RV and $\angle SRV = 46$.



(a) Name an angle that has the same size as Z STU.

Ans	:	(a)	[1]	į
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(b) Find ∠RVU.

Ans:(b)____[2]

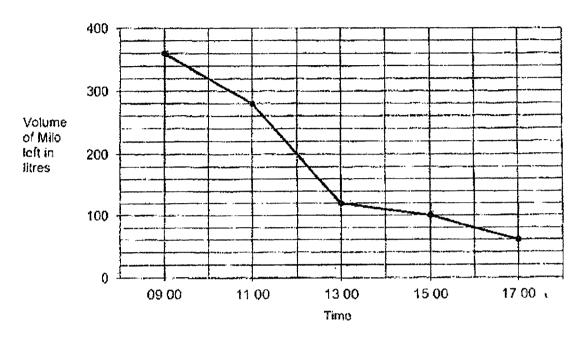
10	Davi	id used 60 blue tiles, 48 red tiles and 24 g	reen tiles to design a pr	roject.
	(a)	Find the ratio of the number of blue tiles total number of tiles that he used for the Give your answer in its simplest form.	to the number of red ti project.	les to the
<i>.</i> .				
			Ans : (a)	[1]
	(b)	David designed another project using blinatio as above. He used a total of 792 till How many green tiles did he use?	ue, red and green tiles es.	in the same
		•	Ans : (b)	[2]
A) \$ 20	22 PS 14	laih End-ol-Year Paper 2	رنی و پاهنده افغان به این به در این	
		6		3

11	Aisha,	Belle and	Carl baked	an average	of 128	cupcakes.
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Aisha and Belle baked an average of 126 cupcakes.
 Belle and Carl baked an average of 115 cupcakes.
 How many cupcakes did Belle bake?

Ans:		4

12 At a Sports carnival, cups of Milo were distributed from a Milo van to students. The line graph shows the volume of Milo left in the Milo van at different times of the day.



(a) During which two-hour interval was the decrease in the volume of Milo the greatest?

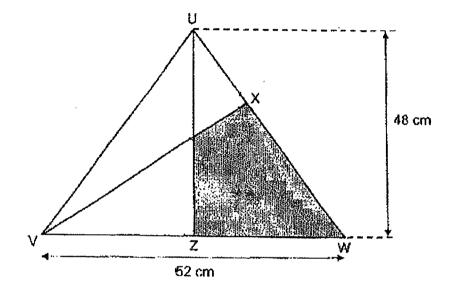
Ans : (a)_	to	[1]
		, w

(b) How many litres of Milo was distributed from 09 00 to 17 00?

(c) The volume of each cup of Milo distributed was 120 ml. How many cups of Milo were distributed from 09 00 to 17 00?

Ans:(c)_____[1]

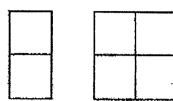
In the diagram, UVW is a triangle. VYX and UYZ are straight lines. Y is the mid-point of UZ and Z is the mid-point of VW. WX is twice as long as UX. UZ is 48 cm and VW is 52 cm. What is the area of the shaded part WXYZ?

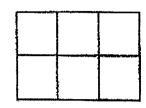


Ans:	[4]
	7. 1

Alice, Brenda, Charles and David shared a box of cards. David took $\frac{2}{5}$ of the cards from the box. Charles took $\frac{3}{10}$ of the remaining cards. Brenda took 18 more cards than Charles and Alice took the rest of the cards. Alice had 54 cards. How many cards were there in the box at first?

15 Lines are drawn to form figures that follow a pattern.





?

Figure 1

Figure 2

Figure 3

Figure 4

Figure	Number of squares	Number of lines drawn
1	2	7
2	4	12
3	6	17
4	8	7

(a) How many lines are needed to form Figure 4?

Ans	:	(a)	14	1
	•	1 1	 	з

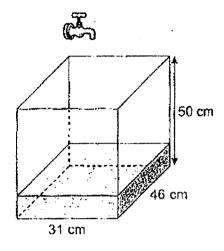
(b) How many squares are there in Figure 36?

(c) Which Figure is drawn with 62 lines?

Ans:	(C)			[2]



A rectangular tank 31 cm long, 48 cm wide and 50 cm high contained 6.8 ℓ of water at first.



(a) What is the capacity of the rectangular tank?

Ans:	(a)	 _{1]
	, ,		

(b) The tap was turned on. Water flowed from the tap into the tank at a rate of 3 £ per minute. At this rate, how long did it take to fill the tank?

(b)(3	3)
-------	----

17	2 bc	cus bought some books and files for a oks and 1 file cost \$11.20. Each book cought 8 more books than files.	tiotal of \$192. Coost 3 times as much as a file.	
	(a)	What is the cost of 1 file?		
			Ans . (a)	[1]
	(b)	How many files did Marcus buy?	(4)	manufid E 1
				·· .
			Ans : (b)	[4]
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SCHOOL :

AI TONG PRIMARY SCHOOL

LEVEL

PRIMARY 5

SUBJECT:

MATHEMATICS

TERM

2022 SA2

PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	1	2	1	1	4	2	3	3
Q 11	Q12	Q13	Q14	Q15		<u> </u>	<u>[</u>	L	<u> </u>
4	3	2	3	4	1				

PAPER 1 BOOKLET B

Q16)	1 l 300ml
Q17)	12.8
Q18)	7
	18
Q19)	$20 \div 100 = 0.2$
	20 + 0.2 = 20.2
	$0.2 \times 7 = 1.4$
•	20 + 1.4 = \$21.40
Q20)	$125 \times 3 = 0.375$
Q21)	$24 \div 3 = 8$
	4+4+4+2+2=20cm
Q22)	$280 \div 40 = 7$
	$4 \times 8 = 32$
Q23)	Front View Top View
	the state of the s

Pg1

CO. 45	
Q24)	$8 \times 60 = 480$
	$480 \div 12 = 40$
	$40 \times 4 = 160$
	$160 \div 60 = \frac{16}{6}$
	$=2\frac{4}{6}$
	$=2\frac{2}{3}\mathrm{h}$
Q25)	180 - 120 = 60
	180 - 104 - 60 = 16
	180 - 104 = 76
	$76 \div 2 = 38$
:	38 - 16 = 22°
Q26)	
Q27)	$3 \times 2 = 6$
	$6 \times 2.5 = 15$
	15 + 4 = 19
	$19 \times 2 = 38
Q28)	12 + 12 + 20 = 44
	$44 \div 2 = 22$
O29)	22 + 12 = 34 $149 - 118 = 31$
QLU,	118 - 31 = 87°
Q30)	
	if cm
	t cm

PAPER 2

01)	0.35 + 0.35 + 0.68 = 1.38kg
GC 17	0.35 T 0.35 T 0.00 1.30kg

00	
Q2)	24 + 6 = 30
	$\frac{6}{30} = \frac{1}{5}$
	$=\frac{20}{100}$
	= 20%
Q3)	$266 \div 8 = 33.25$
(30)	$33.25 \times 6 = 199.50
Q4)	10h15min
Q5)	20 + 20 + 21 + 21 = 82m
Q6)	180 – 128 = 52
	$52 \div 2 = 26$
	180 - 52 = 128
	360 - 128 - 128 = 104
	$104 \div 2 = 52$
07)	128 + 26 = 154°
Q7)	3.75 - 1.38 = 2.37
	2.37 + 3.75 = 6.12m
Q8)	9u - 2u = 7u
	2u + 2u = 4u
	7u - 4u = 3u
	$147 \div 3 = 49$
	$49 \times 9 = 441$
Q9)	a) < SRU
	b) 180 – 46 = 134
	134 ÷ 2 = 67
	180 – 67 = 113°
Q10)	a) 5:4:11
	b) 60 : 48 : 24
	10:8:4
	5 : 4 : 2
	5 + 4 + 2 = 11
	$792 \div 11 = 72$
	$792 \div 11 = 72$ $72 \times 2 = 144$
Q11)	$128 \times 3 = 384$
,	$126 \times 3 = 364$ $126 \times 2 = 252$
	$115 \times 2 = 230$
	252 + 230 = 482
	482 - 384 = 98

Q12)	a) 1100 to 1300	
	b) $360 - 60 = 300\ell$	
	c) $300 \times 1000 = 300000$	
	$300000 \div 120 = 2500$	
Q13)	$\frac{1}{2}$ x 48 x 52 = 1248	
	$\frac{1}{2}$ x 26 x 24 = 312	
	2	
	$\frac{2}{3}$ x 1248 = 832	
	$832 - 312 = 520cm^2$	
Q14)	54 + 18 = 72	
	$72 \div 4 = 18$	
	$18 \times 10 = 180$	
	$180 \div 3 = 60$	
	$60 \times 5 = 300$	
Q15)	a) $17 + 5 = 22$	
	b) $36 \times 2 = 72$	
	c) $62 - 7 = 55$	
	$55 \div 5 = 11$	
	11 + 1 = 12	
Q16)	-/	
	b) $71300m\ell = 71.3\ell$	
	71.3 - 6.8 = 64.5	
	$64.5 \div 3 = 21.5 \text{min}$	
Q17)	a) $2 \times 3 = 6$	* * . <u>.</u>
	6+1=7	
	$11.2 \div 7 = \$1.60$	
	b) $1.6 \times 3 = 4.8$ $4.8 \times 8 = 38.4$	
	$4.8 \times 8 = 38.4$ $192 - 38.4 = 153.6$	
	1.6 + 4.8 = 6.4	
}	$1.6 \div 4.6 = 0.4$ $153.6 \div 6.4 = 24$	
<u> </u>	1330 - 07 - 27	