SCHOOL: AITONG PRIMARY SCHOOL

LEVEL :

PRIMARY 6

SUBJECT: MATH TERM: 2020 PRELIM

## PAPER 1 BOOKLET A

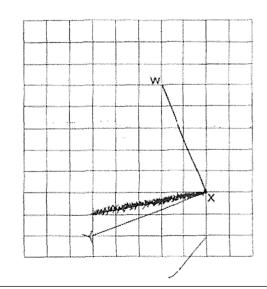
13%	Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
	4	4	3	4	2	2	1	1	2	1

Q 11	Q12	Q13	Q14	Q15
1	2	4	2	3

## PAPER 1 BOOKLET B

Q16) 32.82

Q17)



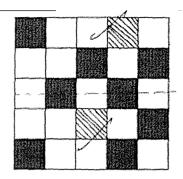
Q18) 
$$6 + 3y + 5 - y$$

$$= 6 + 21 + 5 - 7$$

$$= 27 + 5 - 7$$

$$= 32 - 7$$

Q19)



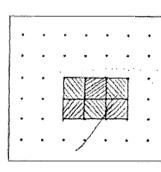
Q20) **PU** 

Q21) **2.5h** 

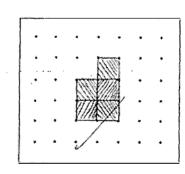
Q23) **a)20 b)** 1/4

Q24) **23** 

Q25)



Top View



Side View

Q26) **3** 

Q27) **3:4** 

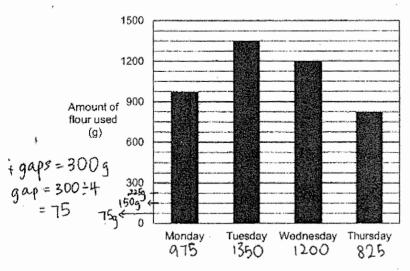
Q28) **a)False b)True** 

Q29)	a) 18 b)3			
Q30)	253	Ġ.		

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)

Do not write in this space

 The bar graph below represents the amount of flour Mrs Tang used from Monday to Thursday.

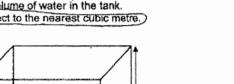


What is the everage amount of flour Mrs Tang used per day?

Ave = 
$$4350 \div 4$$
  
=  $1087.5$ 

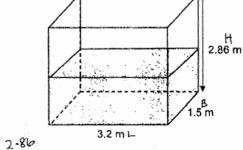
Ans: 1087.5

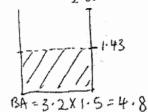
2 James filled half a rectangular tank measuring 3.2 m by 1.5 m by 2.86 m with water. Find the volume of water in the tank.
Give your answer correct to the nearest cubic metre.



Do not write

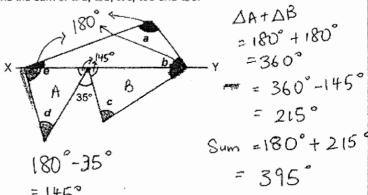
in this space





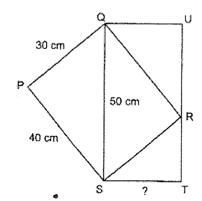
$$V_{01} = BAXH$$
  
= 4.8X1.43  
= 6:864  
 $\approx 7$  Ans: 7

3 In the figure, XY is a straight line. Find the sum of ∠a, ∠b, ∠c, ∠d and ∠e.



	- 0 -	
Ans:	395	 trong to the April of State of

4 In the figure below, PQRS and QUTS are rectangles. PQ = 30 cm. PS = 40 cm and QS = 50 cm Find the length of ST.



AQURT DSRT = DQRS

Do not write

in this space

△QRS = (30 X40) = 2 = 600

Rect QUTS = 600 x 2 = 1200

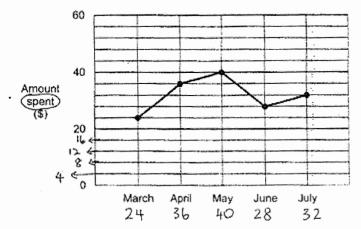
> ST = 1200:50 = 24

2021 P6 Prefim Math Paper 2

Do not write in this space 5 The figure shows an equilateral triangle, P. By joining dots on the grid with straight lines, draw a mombus with the same perimeter as P.

For questions 6 to 17, show your working clearly and write your answers in the 100 not write spaces provided. The number of marks available is shown in bracket [ ] at the and of each question or pad-question. For questions which require units, give your answers in the units stated. (45 marks)

Kumar receives the same amount of pocket money from his father every month from March to July. He spent some of his pocket money and) saved the rest. The line graph below shows the amount of pocket money Kumar soent from March to July.



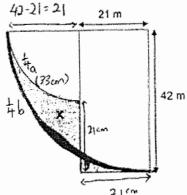
- Kumar saved \$14 in April. How much pocket money does he receive from his father each month?
- What is the percentage increase in the amount of money Kumar saved from May to June?

May (100%)
Saved = 50 - 40 June 122-12 Saved = 50-28 = 12

9.1 = 12 ×100 = 120 (b) 5

The figure is made up of two quarter circles and a rectangle overlapping in this space one another. The radius of the larger quarter circle is the same as the length of the rectangle. The length of the rectangle is 42 m and its breadth is 21 m. Find the sum of the perimeters of the two shaded parts Y and Y

HL -> L -> Add Take  $\pi = \frac{22}{7}$ .

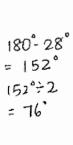


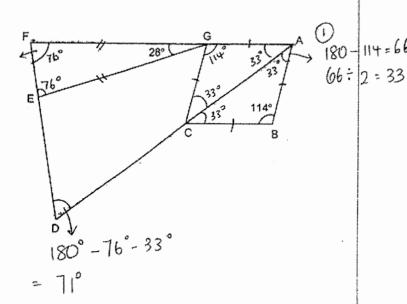
= 33

$$P = 33 + 66 + 21 + 21$$
= 141

the not write

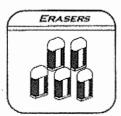
In the figure below (ABCG)s a rhombus. EFG and DAF are triangles. GE = GF. ZEGF = 28° and ZABC = 114°. Find ZCDE.





Do not write in this space

Bookshop A and Bookshop B sold erasers in packs of 5 and pens in packs of 8. The two bookshops sold a total of 1596 erasers and pens. Bookshop A sold twice as many packs of erasers as pens while Bookshop B sold twice as many packs of pens as erasers. The number of pens sold in both bookshops was the same. How many packs of erasers did both bookshops sell altogether?





SHOP A

SHOPB

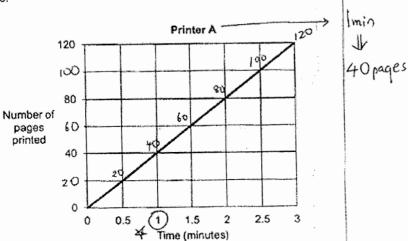
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aty	24	lu	aty	10	2ρ
Unit Value	5	8	Unit Value	5	8
Total Value	10 u 12 14 20p	84 F	Total Value Same	5ρ	(16 P)

20p+16p+5p+16p=57p 57p=1596 20p+5p 1p=1596-57=2825p = 28x25 = 700 (erasers) Packs = 700 = 5 = 140 Ans:

Mr Tan used two different printers for a printing job. The graph below shows the number of pages printed by Printer A in a given period of time.



Mr Tan started printing on both printers at 10 30. He turned off Printer B at 10 45. Printer A was turned off at 10 48. He printed 1890 pages altogether. Printer B printed an equal number of pages every minute. How many pages did Printer B print in one minute?

11 Ben earned \$2

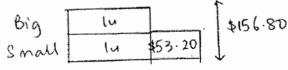
Do not write

in this space

Ben earned \$2.50 for delivering a small parcel and earned more for delivering a big parcel. He delivered 3 times as many small parcels as big parcels and earned a total of \$156.80. He earned \$53.20 less for delivering all the big parcels than all the small parcels.

How many big parcels did 8en deliver?

Total Value



, unit Value.

$$2u = 156.80 - 53.20$$
  
=  $103.60$   
 $1u = 103.60 \div 2 = 51.80$  (BIG)

a is inclusioned an extension open opening citation of	Small	Big
aty	34	lu
Unit	2.50	2.50+ lp
Total	7.50 u	2.50U + lup

Ans:[3]
---------

Do not write in this space

Qty

Value

Mrs Tan bought as many pears as apples and as many oranges as apples. She paid a total of \$150 for all the fruits. The ratio of the amount of money she spent on the pears to the amount of money she spent on the apples was 2:3. The ratio of the amount of money she spent on the pears to the amount of money she spent on the pears to the amount of money she spent on the oranges was 1:5. Each apple cost \$0.50. Find the total number of fruits Mrs Tan bought.

oty	×			
P	;	A	;	0
4	:	5		
		5	<i>.</i>	2
4	,	5	* *	2

Valu					
	P	:	A	*	0
	2		3		
	×2	,			5x2
	2	;	2	5	: 10

*** material and management of the state of	ρ	A	0	Total
Qty	4u	54	24	114
Unit Value		504	allian alliant de la companya de la	
Total Value	2ρ	(250u) 3p	10p	\$150

$$|5p = $150$$

$$|p = $150 = $10$$

$$|p = $150 = 15 = $10$$

$$|3p = $10 \times 3 = $30$$

$$|4| = $3000 \neq 250$$

$$|4| = $10 \times 3 = $30$$

$$|4| = $12 \times 11 = 132$$

$$|4| = $132$$

$$|4| = $132$$

$$|4| = $132$$

11

Do not write in this space

Figure 1 shows two identical large semicircles and two identical small semicircles overlapping within a square tile. The length of the square tile is 40 cm. The diameter of the small semicircle is 20 cm.

BIG D=40 R=20 TX R X R 20 =3-14 x 20 x 20

= 1256

0 cm 40 cm

5mall D=20 R=10 3-14×10×10= 314

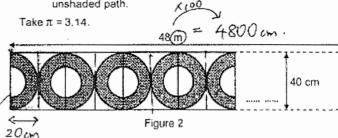
PLAN: BIG circle Small circle Shaded =1256-314

Do not write

in this share

(a) What is the area of the shaded parts within each tile?

b) Figure 2 shows part of a path-completely covered with such tiles. The path is 48 m long and 40 cm wide. Find the area of the unshaded path.



I shaded =  $942 \text{ cm}^2 \div 2 = 471 \text{ cm}^2$ Rect =  $20 \times 40$ = 800Unshaded = 800 - 471 = 329

$$20 \text{ cm} = 1 \text{ Rect}$$

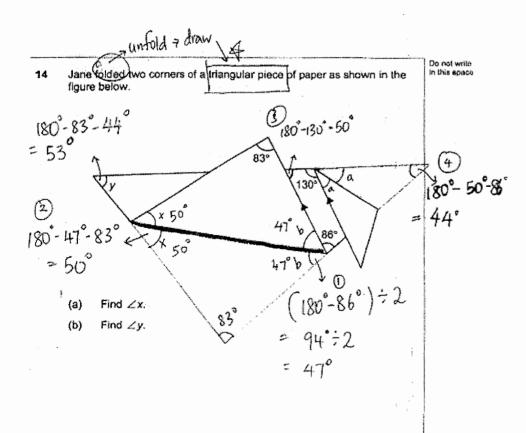
$$4800 \text{ cm} = 4800 \div 20$$

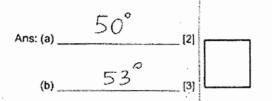
$$= 240 \text{ (Rect)}$$

$$= 240 \text{ (Ans: (a)} 942 \text{ cm}^{2}$$

$$240 \text{ X} \cdot 329 = 78960$$

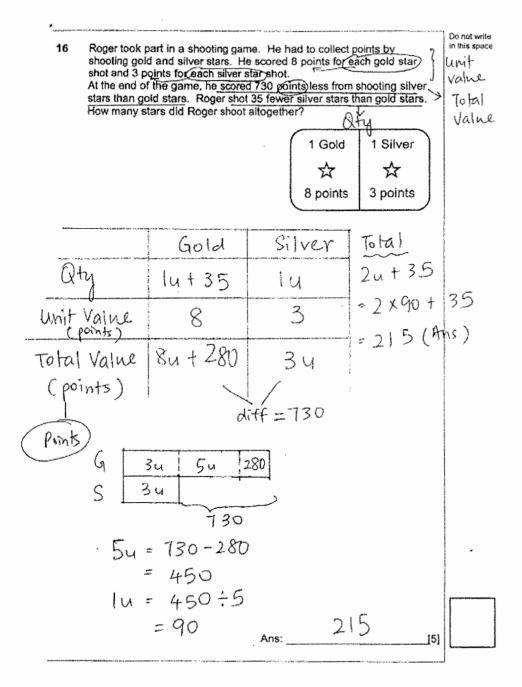
(b) 78960 cm [3]





(V/u Do not write At a paint shop, there were some identical pails, 60% of the pails were in this space completely filled with paint. 32% of the pails were  $\frac{1}{3}$  filled with paint. The remaining 20 pails were empty. The total amount of paint in the pails was 1590 # How many pails were completely filled with paint? What was the amount of paint in one full pail? >> Complete 3 filled Complete (,150 pails) 32u . atu(P) IP Unit Value 1u=20 Total Value 180 up 1590L = 150 180up+32up = 212up (a) 212 up = 1590 1 up = 1590 = 212 180 up = 7.5×180 = 1350 150 pails = 1350L 1 pail = 1350 ÷ 150 50 Ans: (a)

14



17 Ken had 2 boxes of beads,	Box A had 60 more beads than Box B at	Do not write in this space					
- (1)	the beads from Box A to Box B.						
Next he moved of the beads from Box B back into Box A.							
Ken then added another 87	beads to Box A. In the end, the number of						
· ·	he number it contained at first	t60					
	ere there in Box A in the end? X2	)×2 +120					
ANY AND ASSESSED TO A SECURITY OF THE PROPERTY	Su	F120					
A B							
-lu+60 lu	5u+138= 8u+12 -5u-120 -5u-12	0					
44+60 44	-120 -5U -12	0.					
-14-15 +14+15	-						
3u+45 5u+15	18 = 3u						
	lu = 6						
	2 21/4 th						
5u+51 3u+9	2u(+6) = 2x6+6	3					
+87	-18 (a	1					
5u+138 3u+9	5u+138 =(5x6) +	138					
	but 138 = (0)	•					
	= 168	ebidenci pirti, -ses					
		And the second s					
	Ans: (a)						
2	Ans: (a) [3]						
	(b) 168 [2]						
	9-7-Will (Australia unum on Committee Committe						

## END OF PAPER CHECK YOUR WORK CAREFULLY!