

<u>202</u>	1 PRIMARY 6 I	PRELIMINAR'	Y EXAMI	NATION	
Name:	· · · · · · · · · · · · · · · · · · ·	()	Date: <u>18</u>	August 20	121
Class: Prima	y6()		Time: 8.	00 a.m. – ().00 a.m.
Parent's Sign	ature:				
.		THEMATI PAPER 1 BOOKLET A		2	20
1. Write 2. Do n 3. Follo 4. Answ	ctions to cange your name, class of turn over this pay all instructions carer all questions.	and register num ge until you are to arefully.	old to do so		rking.

6. You are NOT allowed to use a calculator.

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). Shade the correct oval on the Optical Answer Sheet. [20 marks]

Q1.	Bob took 130 seconds to run round a track.
	He was 25 seconds faster than Pete.
	How long did Pete take to run round the track?

- (1) 1 min 45 s
- (2) 1 min 55 s
- (3) 2 min 5 s
- (4) 2 min 35 s

Q2.	8 hundreds,	5 tenths	and 6	thousandths is	
-----	-------------	----------	-------	----------------	--

- (1) 800.056
- (2) 800.506
- (3) 800.560
- (4) 850.006

Q3. P is 5 times of Q. Q is thrice of R. What is the ratio of R to Q to P?

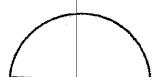
- (1) 1:15:3
- (2) 1:3:15
- (3) 3:1:15
- (4) 15:1:3

Q4.	The number of visitors who went to a flower exhibition was 70	000
	when rounded to the nearest hundred.	
٠.	Which of the following shows a manufacture of th	

- (1) 70 055
- (2) 70 051
- (3) 69 951
- (4) 69 949
- Q5. Jenny faced south-east after turning 225* anti-clockwise. What direction was she facing at first?
 - (1) North
 - (2) South
 - (3) South-east
 - (4) North-east
- Q6. The figure shows a semicircle of radius 21 cm. Find the perimeter of the figure. (Take $\pi = \frac{22}{7}$)



- (2) 87 cm
- (3) 108 cm
- (4) 174 cm



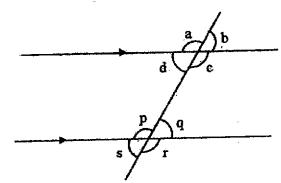
Q7. Which of the following is the same as 20 kg 8 g ?

- (1) 20.008 kg
- (2) 20.08 kg
- (3) 20.8 kg
- (4) 2.08 kg

QB. Find the sum of all the factors of 64.

- (1) 62
- (2) 93
- (3) 127
- (4) 135

Q9. Which of the following statements about the angles in the figure are true?



- A. $\angle a = \angle r$
- B. ∠b = ∠s
- C. ∠8 = ∠c
- D. ∠s = ∠q
- (1) A and B only
- (2) A and D only
- (3) A, B and C only
- (4) A, B and D only

Q10. Study the following table carefully.

		1.5	3
0	1	2	3
7	6	5	4
. 8	9	10	1
15	14	 . 13	39

Which column will the number 71 appear in?

- (1) A
- (2) B
- (3) C
- (4) D

Q11. Guan Ming has 3 empty bottles J, K and R. He poured an equal amount of milk into each of them. As a result, 50% of J was filled with milk, 25% of K was filled with milk and 75% of R was filled with milk.

What is the ratio of the capacity of Bettle J to Bottle R to Bottle R?

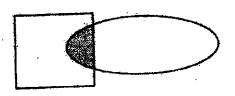
- (1) 1:2:3
- (2) 2:3:1
- (3) 3:2:6
- (4) 3:6:2

Q12. The figure is made up of a square and an oval.

The ratio of the area of the square to the area of the oval is 2:3.

The shaded area is $\frac{1}{6}$ the area of the oval. The shaded area is 36 cm².

Find the area of the figure.



- (1) 144 cm²
- (2) 216 cm²
- (3) 324 cm²
- (4) 360 cm²
- Q13. The original price of a box of cookies was \$m. Aunty Loh bought a dozen such boxes of cookies. She was given a discount of 50 cents for every 2 boxes bought. How much did she pay for the boxes of cookies altogether?
 - (1) \$(6m 3)
 - (2) \$(6m + 3)
 - (3) \$(12m 3)
 - (4) \$(12m + 3)

Q14.	Jonathan read 3 books in 2 hours. He spent 15 minutes longer to read the
	hist book than the second book. He spent the same amount of time to
	the last 2 books. How many minutes did he take to read the first book?

(1)	30 min
1.7	~~ *, iii i

- (2) 35 min
- (3) 45 min
- (4) 50 min

Q15. Which of the following fractions is closest to $\frac{3}{4}$?

- (1) 7
- (2) $\frac{1}{2}$
- (3) 3 5
- (4) 1 4

- END OF BOOKLET A -



2021 PRIMARY 6 PRELIMINARY EXAMINATION

Name:) Date	e d'Ordene		
Class: Primary 6 ()		: <u>18 Aug</u> : <u>8.00 a.</u>	<u>usi 2021</u> m. – 9.00 a.:	m,
Parent's Signature:	-	·			
	MATHEMA				
	PAPER	1		25	
	(BOOKLE	TB)		20	

INSTRUCTIONS TO CANDIDATE

- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Show your working clearly as marks are awarded for correct working.
- 6. You are NOT allowed to use a calculator.

	ons 16 to 20 carry 1 mark each. Write your asswer stions which require units, give your answer find the value of 49.14 + 7		
1 9. .	I listen and and security of the second		
-		Ans :	
	Express 0.5% as a fraction in the simplest fo	m.	
17. E	Express 0.5% as a fraction in the difference		
		A country	
218.	The table below shows the number of book	s read by ear	ch pupil in a cl
Q18.	of 28 pupils. One of the numbers in the table	s read by ear	ch pupil in a cl
218.	The table below shows the number of books of 28 pupils. One of the numbers in the table. Number of books read by each pupil	s read by ear	ch pupil in a cl by an ink stair
118.	of 28 pupils. One of the numbers in the table	s read by ear	ch pupil in a cl by an ink stair
218.	Number of books read by each pupil Number of pupils	s read by each is covered	ch pupil in a cl by an ink stair 12 20
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Q18.	Number of books read by each pupil Number of pupils	s read by each le is covered 8	ch pupil in a cl by an ink stair 12 20
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218.	Number of books read by each pupil Number of pupils The average number of books read by the	s read by each le is covered 8	ch pupil in a cl by an ink stair 12 20

Q19. A bottle contains 1.05 litres of water. Wendy pours 300 mi of water from it into a cup. How much water is left in the bottle?

Q20.	in the squ	are grid,			
				1	
	<u> </u>	В	E		
		C			
	A	D	F		•
				ı	
				1 × 1	
	(a) Point		is We	st of Point D.	
	h) Doint				
,		 	is So	outh-West of Point E.	
	•			•	
	•				
				Ans: (a) Point	
				(b) Point	
· · · · · · · · · · · · · · · · · · ·					

Ans:

Questions 21 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

Q21. What is the missing number in the box?

$$2 \times 30 + (200 - 90) = 320$$

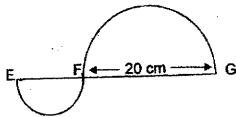
Ans: _____

Q22. $\frac{3}{5}$ of Christy's spending is equal to $\frac{7}{12}$ of Kelvin's spending.

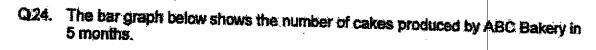
What is the ratio of Kelvin's spending to Christy's spending?

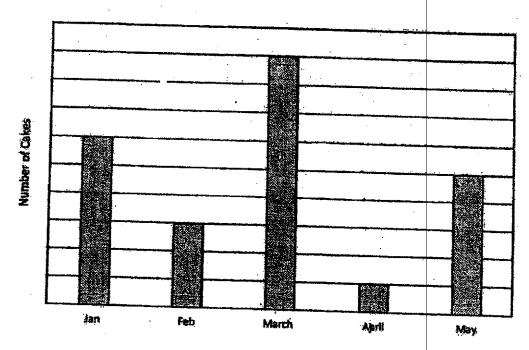
Ans:

Q23. The figure below shows 2 semicircles. EG is 34 cm. Find the perimeter of the figure. Leave your answer in terms of π .



Ans: _____cm



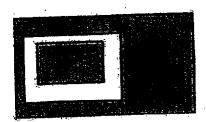


In which month did the bakery produce $\frac{1}{4}$ of the total number of cakes produced in the 5 months?

Ans:

O25. Ming Lei drew three rectangles to form a figure. The areas of the rectangles were in the ratio 3:5:18. She then shaded some parts of the figure as shown. What fraction of the figure was shaded?

Express your answer in the simplest term.



Ans:	

Q26. 16 students were assigned to line up in a row from one end to the other end of a corridor to welcome parents to a school event.

They had to stand at an equal spacing of 1.2 m apart.

On the day of the event, 5 of the students did not turn up.

As a result, the remaining students had to line up from one end to the other end of the corridor at a new equal spacing.

What was the new spacing between 2 students?

Ans:	cm
------	----

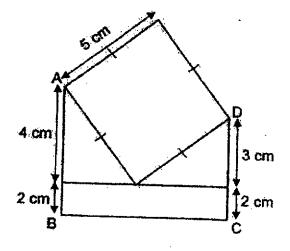
O27. A school bus can carry 24 adults or 32 children.

There are already 9 adults and 11 children on the bus.

How many more children can the bus carry?

Ans:	·	

Q28. The following figure, not drawn to scale, is made up of a square, a rectangle and 2 identical triangles. AB and CD are straight lines. Find the area of the figure.



Ans:	cm²
------	-----

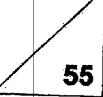
	less to spend. How much was his sala	
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		·
	Ans: \$	
	Amin S	
	acket of milk for \$0.85 and a bana shier a \$5 note. She received her number of coins Nora would have received	na muffin for \$1.4 change all in coin
	acket of milk for \$0.85 and a bana	na muffin for \$1.4 change all in coin
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	acket of milk for \$0.85 and a bana	na muffin for \$1.4 change all in coin
	acket of milk for \$0.85 and a banar shier a \$5 note. She received her number of coins Nora would have received	na muffin for \$1.4 change all in coin



2021 PRIMARY & PRELIMINARY EXAMINATION

Name:()	Date: <u>18 August 2021</u>
Class: Primary 6 ()		Time: <u>10.30 a.m 12.00 p.m.</u>
Parent's Signature:		

MATHEMATICS PAPER 2



INSTRUCTIONS TO CANDIDATES

- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- Follow all instructions carefully.
- 4. Answer all questions.
- 5. Show your working clearly as marks are awarded for correct working.
- 6. You are allowed to use a calculator.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Peter and James were usually given \$58 altogether for their weekly pocket money. As James needed money for new books next week, he asked for \$19 more. As a result, he would have ³/₄ as much money as Peter. How much was Peter's pocket money?

Ans: \$

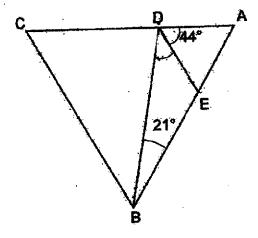
2. There were 34 red candies and 18 yellow candies in a jar.
An equal number of red and yellow candies were removed from the jar.
The ratio of the number of red candies to the number of yellow candies became 5:1. How many red candies were there in the end?

Ans: _____

			words on each
•		•	
	•	• .	
		•	
	Ans:		in the

Mr Wong is AR yours at	d now. His son is n ye	ars younger th	an him.
Find, in terms of n, their	r total age in 3 years'	une,	
Find, in terms of n, their	r total age in 3 years'	ume,	
Find, in terms of n, their	r total age in 3 years'	une,	
Find, in terms of n, their	r total age in 3 years'	une,	
Find, in terms of n, their	r total age in 3 years'	une,	

In the figure below, ABC is an equilateral triangle with AB = BC = CA.
 Given ∠ABD = 21° and ∠ADE = 44°, find ∠BDE.



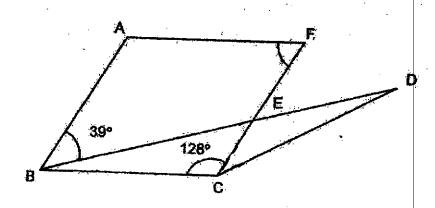
Ans:

For questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided.

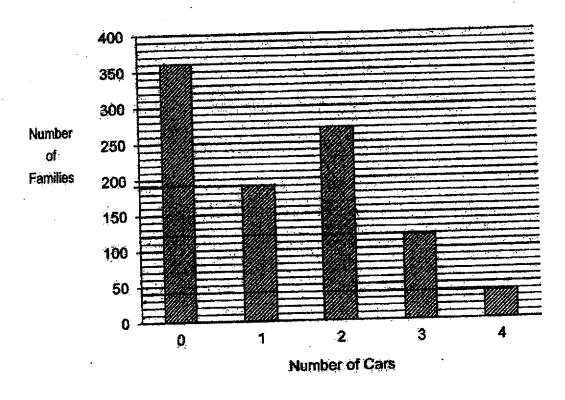
The number of marks available is shown in brackets [] at the end of each question or part-question.

[45 marks]

- 6. In the figure below, not drawn to scale, ABCF is a rhombus and BCD is an isosceles triangle. ∠ ABE = 39° and ∠ BCF = 128°.
 - (a) Find ZAFC.
 - (b) Find ∠FCD.



7. The bar graph shows the number of cars owned by families in a neighbourhood.



- (a) How many families have less than 2 cars?
- (b) From the families who own at least 3 cars, what fraction of them have 4 cars? Give your enswer in the simplest form.

Ans: (a)	[1]
0.3	127

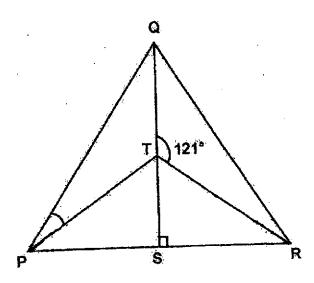
8.	In a school, 60% of the boys and 40% of the girls wear spectac	lana.
	the lighting of boys and one who wear speciacies is the more	
	THE PUTS WIRE WHO GO NOT taken chartenian the marketing	ii pir . a≱esa .
	outnumbered the number of boys by 50. How many girls are the	re?

Ans: _____[3]

9. In the diagram below, PQR is an equilateral triangle and PTR is an isosceles triangle. QS is a straight line. QS⊥ PR and ∠ QTR = 121°.

Find

- (a) ∠TRP
- (b) ∠ QPT



10.	At first, the number of strawberries that Roger and Darren had was in the
	ratio 5: 7 respectively. Roger gave 5 of his strawberries to his sister and
	Darren ate 35 of his strawberries. In the end, Roger had fulce as many
	strawberries as Darren. Find the number of strawberries Darren had at first

Ans: [3]

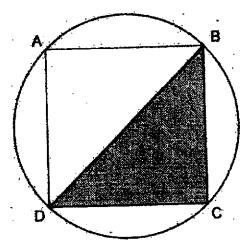
11.	in his demonstration on the art of tea making, John first poured some tea
	from a not into an empty cup.
	The amount of tea in the cup is $\frac{1}{4}$ of the amount of tea left in the pot.
	For the second step, he poured 20 ml of milk into the cup.
	Finally, he poured 50 ml of tea from the pot into the cup.
	The final amount of liquids in the cup was $\frac{1}{2}$ of that left in the pot.

- (a) Find the total amount of milk and tea added from the second and final steps.
- (b) Find the original amount of tea in the pot.

Ans: (a)	[1
(b)	[3

12.	Triangle T is drawn by joining dots on the square grid below.								٠,							
	(a) Dra Lat	w a n	ght-ar triang	gled le R.	trianç	jle witi	the	sam:	are:	a as	Triang	le T.	(ii)		
•	(b) Dra Lab	w a pa	rallel parall	ogran elogn	n with am P	twice	the	erim	eter :	as T	riangle	7.	[2]	i.	
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		nfata.													[1]	
ut a	in t	he cor	ment is rect col	enner i umn.	Tue, fa	ise or	not pos	sible t	o tell.	Tn	ue	False	, /	ot pos to te		
he a	irea o	f P is	twice	the a	rea ol	Τ.		<u></u>	•						-	

13. Study the following figure.

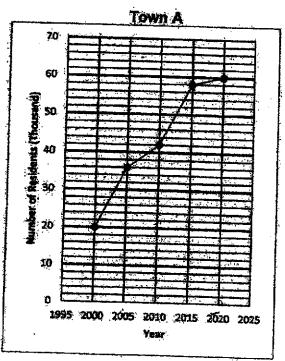


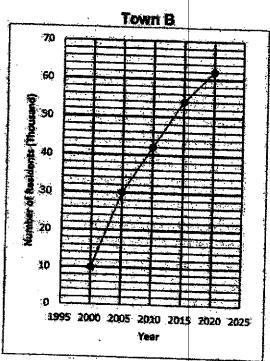
ABCD is a square and the area of the circle is 200.96 cm². (Take π = 3.14)

- (a) Find the radius of the circle.
- (b) Find the length of the arc AB.
- (c) Find the area of the shaded triangle BCD.

Ans: (a)	2
(b)	[1]
(c)	[1

14. The line graph below shows the number of residents in Town A and Town B who are involved in a recycling project from Year 2000 to Year 2020.





- (a) In which year(s), were there more residents involved in the recycling project in Town B than in Town A?
- (b) For Year 2025, the number of residents in Town A who are to be involved in the recycling project are expected to increase by 25%. Find the number of residents in Town A who are expected to be involved in Year 2025.
- (c) What is the percentage increase in the number of residents in Town B who are involved in the recycling project from Year 2000 to Year 2020?

Ans: (a)		[1
(b)	-	[1]
(c)		[2]

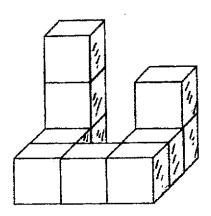
15.	The total age of workers in a restaurant is 256 years.
, <u></u>	The total age of workers in a vorker and youngest worker is 41 years. The average age of the rest of the workers is 29 years.
	Find the total number of workers in the restaurant.

Ans: _____

Figure Number 1 2 3 4 5 Number of triangles 2 4 8 12 Number of circles 2 5 8 13 2 Total number of triangles 4 9 16 25 36 (b) Find the Figure Number of the pattern that has a total of 729 triangles and circles.	@∆ ∆ ®		©∆© ∆©∆ ©∆©			∆@∆ 3∆6 2@∆ 3∆€		^ ^ ^		
Figure Number 1 2 3 4 5 2 Number of triangles 2 4 8 12 Number of circles 2 5 8 13 2 Total number of triangles and circles 4 9 16 25 36 (b) Find the Figure Number of the pattern that has a total of 729 triangles and circles.	1	Figure 1	Figure	2	Fi	gure 3				
Number of triangles 2 4 8 12 Number of circles 2 5 8 13 2 Total number of triangles and circles 4 9 16 25 36 (b) Find the Figure Number of the pattern that has a total of 729 triangles and circles.	(a) ר	Comple	te the table	ofor Fig	gure 5	and Fi	gure 2	o . [2	2]	
Number of circles 2 5 8 13 2 Total number of triangles and circles 4 9 16 25 36 (b) Find the Figure Number of the pattern that has a total of 729 trian and circles.		Figure N	lumber	1	. 2	3	4	5		
Total number of triangles and circles 4 9 16 25 36 (b) Find the Figure Number of the pattern that has a total of 729 trian and circles.		Number of	triangles	2	4	8	12			
Total number of triangles and circles 4 9 16 25 36 (b) Find the Figure Number of the pattern that has a total of 729 trian and circles.		Number o	fcircles	2	5	8	13			2:
(b) Find the Figure Number of the pattern that has a total of 729 trian and circles.			nber of					 		+
	(b)		nd circles		***************************************				of 700	

- 17. The following solid figure was formed using ten 2-cm cubes.

 The exterior of the solid figure (including the base of the solid) was painted.
 - (a) Find the total painted surface area of the solid figure.
 - (b) If the 2-cm cubes were taken apart, how many faces of the cubes were not painted?
 - (c) More cubes were added to form a big cube.
 What is the least number of 2-cm cubes added ?



Ans: (a)	[2]
(b)	[1]
(c)	[2]

ANSWER KEY

YEAR : 2021

LEVEL : PRIMARY 6
SCHOOL : TAO NAN

SUBJECT: MATHEMATICS
TERM: PRELIMINARY

BOOKLET A (PAPER 1)

. Q1	4	Q2	3.		—				
	-		- 4	Q3	2	Q4	3	Q5	1
Q6	3	Q7	1	Q8	3	Q9	1		+=
Q11	3	Q12	3	Q13	-		 	Q10	1
	_1			Q13	3	Q14	4	Q15	1

BOOKLET B (PAPER 1)

Q16	7.02	Q17	1	
Q18	28 X 10 = 280 280 - 12 = 268 20 X 12 = 240 280 - 240 = 40 40 ÷ 8 = 5	Q19	1.05L = 1050ml 1050ml - 300ml = 750ml	
Q20	a) C b) B	Q21	$210 \div 30 = 7$ $7 \times 2 = 14$	-
Q22	Kelvin : Christy 36 : 35	Q23	$\frac{\frac{1}{2} \times 2 \times \pi \times 10 = 10 \pi}{\frac{1}{2} \times 2 \times \pi \times 7 = 7 \pi}$ $10 \pi + 7 \pi + 20 + 14$	
Q24	6+3+9+1+5=24 $\frac{1}{4} \times 24=6$ ANS: January	Q25	$= (17 \pi + 34) \text{cm}$ $13 + 3 + 2 = 18$ $\frac{16}{18} = \frac{8}{9}$	
Q26	16 - 1 = 15 15 x 120 = 1800 5 x 120 = 600 1800 ÷ 10 = 180 cm	Q27	12 + 11 = 23 32 - 23 = 9	
.	$5 \times 5 = 25$ $2 \times \frac{1}{2} \times 4 \times 3 = 12$ $2 \times 7 = 14$ 25 + 12 + 14 = 51 cm 2	Q29	100% + 20% = 120% 0.4 units = 400 5 units = 1000 x 5 = 5000	

	Q30	0.85 + 1.40 = 225	·
ļ		5 - 2.25 = 2.75	
		ANS : 5	

PAPER 2

01	\$44	Q2	34 - 18 = 16
Q1		~-	17 units = 34
		1	1 unit = 34 ÷ 17 = 2
	·		10 units = 2 x 10 = 20
Q3	450 x 30 = 13500	Q4	46 + 3 = 49
.Q3	$13500 \div 45 = 300$	-	46 - n + 3 = 49 - n
	300 min = 5h		49 + 49 - n = (98 - n) years
Q5	<abc <acb="<CAB</td" ==""><td>Q6</td><td>a) <dbc -="" 128°<="" 180°="" 39°="" =="" td=""></dbc></td></abc>	Q6	a) <dbc -="" 128°<="" 180°="" 39°="" =="" td=""></dbc>
QJ	=180°° ÷ 3 = 60°		=13°
	<cbd -="" 21°="39°</td" 60°="" ==""><td></td><td><afc +="" 13°="52°</td" 39°="" ==""></afc></td></cbd>		<afc +="" 13°="52°</td" 39°="" ==""></afc>
	<cdb -="" 180°="" 39°<="" 60°="" =="" td=""><td></td><td>b) <fcd -="" 128°="26°</td" 13°="" 180°="" ==""></fcd></td></cdb>		b) <fcd -="" 128°="26°</td" 13°="" 180°="" ==""></fcd>
	= 81°		
	$$		
	= 55°		
Q7	a) 360 + 190 = 550	Q8	9 – 4 = 5
•	b) 120 + 40 = 160		50 ÷ 5 = 10
	$\frac{40}{}=\frac{1}{}$		6 + 9 = 15
	160 - 4		15 x 10 = 150
Q9	a) <rts -<="" 180°="" =="" td=""><td>Q10</td><td>5 units – 1 unit = 2 parts</td></rts>	Q10	5 units – 1 unit = 2 parts
	121° = 59°	•	7 units – 35 = 1 part
	<trp 180°-<="" =="" td=""><td>İ</td><td>14 units – 70 = 2 parts</td></trp>	İ	14 units – 70 = 2 parts
	90°-59° = 31°	: 1	4 units = 2 parts
•	$<$ QPR = 180° \div 3		4 units = 14 units - 70
	= 60°		70 = 14 units - 4 units
	b) $<$ QPT = $60^{\circ} - 31^{\circ}$		70 = 10 units
	= 29°		10 units = 70
			1 unit = 70 ÷ 10 = 7 7 units = 7 x 7 = 49
) and 50 70	017	a)
Q11	a) 20 + 50 = 70	Q12	a)
	b) 1u + 70 = 1p		
	4u - 50 = 3p		R
	3u + 210 = 3p 3u + 210 = 4u -		b)
	50 210 + 50 = 1u		
	1u = 260		
	In = 500		c) False
1			c) False

	5u = 260 x 5 = 1300ml				· · · · · · · · · · · · · · · · · · ·		• • •				
Q13	a) $200.96 \div 3.14 =$ 64 $\sqrt{64} = 8 \text{cm}$ b) $8 \times 2 = 16$ $\frac{1}{4} \times 2 \times 3.14 \times 8 =$ 12.56 cm c) $\frac{1}{2} \times 8 \times 16 = 64$ cm2	Q14	b)	2020 60000×13 $62 - 10 = 5$ $\frac{52}{10} \times 100\%$	52			0			
Q15	Total age of oldest &	Q16	a)		·····	,				 -	
	youngest work = 41×2 = 82			Figure	1	2	3	4	5	20	
	Age of remaining workers = 256 – 82 =			Number of triangles	2	4	8	12	18	220	
:	174 174 ÷ 29 = 6 6 + 2 = 8			Number of circles	2	5	8	13	18	221	
				Total number of triangles and circles	4	9	16	25	36	441	
			c) 8	$\sqrt{729} = 27$ $27 - 1 = 26$ $340 + 841 = 6$							
				√1681 = 4 41 – 1 = 40							
217	a) 5+4+4+4+4+ 4+4+4+4+5 = 42 42 x 2 x 2 = 168 cm2 b) 6-5=1 1 x 2 = 2 6-4=2 2 x 8 = 16 16+2=18										
	c) 3 x 3 x 3 = 27	ļ									