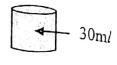
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	Mathematics		
	Grade 9		
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	D		Time - 2 hou
Answer all the questions on this que	Paper I stion paper it self		
Write down the next two terms of the be $1, 2, 3$	low number pattern		
$\frac{1}{3}, \frac{2}{3}, 1, \dots, \dots$	e pattom.		÷
Convert 155 to the base two numbers			
Convert 155_{ten} to the base two number.	r. R		
Find how much is $\underline{4}$ of Rs 250.			
5			
			-
If a vendor buys a sarea for Do 1600			
If a vendor buys a saree for Rs 1500 and s	ells it at Rs 1800. Find	the profit percentage	ð.
Simplify. (a-3) (a-5)			
1			
		4 .	
ì		9 2 1	
Factori		• <u>-</u>	•
3		• <u>.</u>	•
Factorize. $64 - a^2$		• بِ رَ	•
Factorize. 64-a ²		٩ 	
$F_{actorize}$. $64 - a^2$	s of a and b angles	• <u>;</u> ; `	· · · · · · · · · · · · · · · · · · ·
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i Factoria	sof a and b angles.	•	B b D
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$F_{actorize}$. $64 - a^2$	sof a and b angles.	••••	B b a C 60°
Factorize. 64-a ²	sof a and b angles.	••••	$ \begin{array}{c} B\\ b\\ a\\ 70^{\circ}\\ C\\ 60^{\circ}\\ E \end{array} $
Factorize. $64 - a^2$	sof a and b angles.	A Grade 09 - Math	$ \frac{B}{b} \qquad D \\ \frac{1}{C} \qquad D \\$
i Factorize. 64 - a ²			$\frac{B}{b}$ $\frac{D}{C}$ $\frac{D}{C}$ $\frac{D}{C}$ $\frac{D}{E}$ \frac{D}

(08) Capacity of a large container is $4l.\frac{3}{4}$ of this container is filled with coconut oil. oil is filled in to small containers of capacity 30ml each. Find the number of containers that can be filled in this manner.





(00)	Price of 5 papaws is Rs.				
	FILCE OI D DADAWS IS R.S.	600	Tofindthe	· · · · · ·	0
	papano is ro.	000.	10 ma the	Drice of	8 papaws
					o papario.

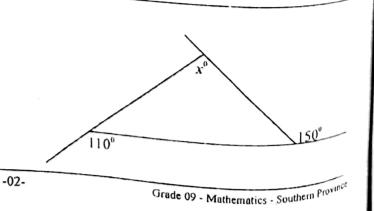
- (i) Build up an algebraic equation.
- (ii) Using it find the price of 8 papaws.

(10) Find the value of. $(a^{\circ})^2 x a$

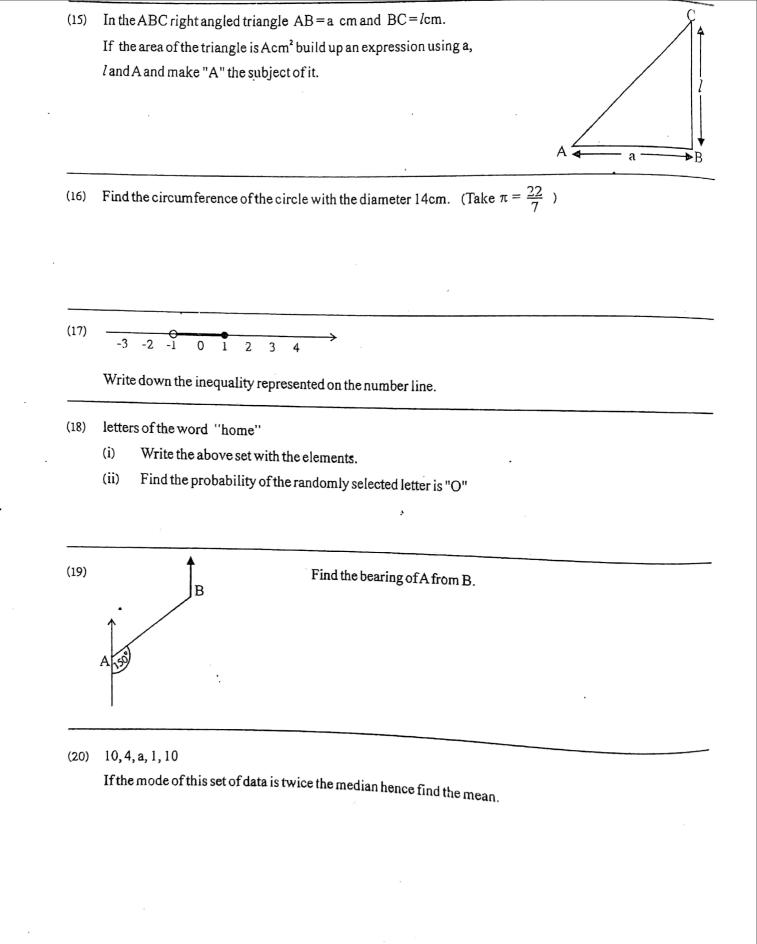
- (11) Write 0.00101 in scientific notation.
- (12) Name the mid point of the line PQ as X and construct perpendicular to PQ at X

(13) Solve. $\frac{x}{2} = 5$

(14) Find the value of x using the given data.



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Grade 09 - Mathematics - Southern Province

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<u>Part - II</u>

1st question and 4 other questions.

(01)

1st question carries 16 marks, others carry 11 marks each.

An ungrouped frequency distribution prepared with the information collected on the number of patients

who received treatment in out patient Department of Certain hospital each day, is given below.

patients Number of	65	66	67	68	69	70	
days	2	4	6	8	12	8	

- Find the range of this data set. (i)
- Find the (ii) (a) Mode

(b) Median

- Using a suitable table find the mean of this data set & round off to the nearest whole number. (iii)
- If x=2 and y=-1 find the value of -3x+2yũ2) (i)
 - Find the factors of 8x ax + 24 3a(ii)
 - $\frac{a+1}{3} + \frac{a}{2} = 2$ (iii) Solve.
 - Solve the simultaneous equations. (iv) 2x + y = 11-x + y = 5
- 03) Incomplete table which is use to draw the graph of the function y=3x-1 is given below.

x	-2	-1	0	1	2
у	-7	·	-1		5

- (i) Find the values for the blanks.
- (ii) Draw the graph of the function y=3x-1 on a suitable cartesian plane.
- (iii) Write the equation of the straight line which is passes through the point (0, -2) and parallel to y = 3x - 1.

⁽⁰⁴⁾ (a)

(i) Find the perimeter of a equilateral triangular lamina of side length 16cm.

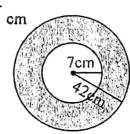
The length of a side of a rectangular lamina with the above perimeter is 16cm.

(ii) Find the breadth of the rectangular lamina. (iii)

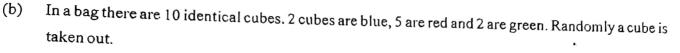
Show that the length of diagonal of the above rectangle is $\sqrt{320}$ cm

(b)

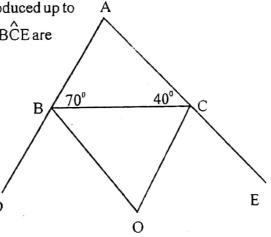
The radius of the large circle is 42 cm and small circle is 7 cm. Find the area of the shaded region.

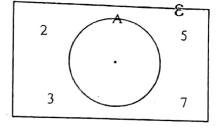


- (05) (a) (i) The set A in this Venn diagram haven't any element what is the special name of that set. Write down it using set notation.
 - (ii) Write the set A' with its elements.



- (i) Find the probability of drawing a blue cube.
- (ii) Find the probability of drawing a red cube.
- (iii) Find the probability of drawing either a red or green cube.
- (06) A ship travailing 150km from harbour A on a beating of 055[°] and arrives at horbour B. Then from horbour B it travel 125km on a brearing of 115[°] and arrives at harbour C.
 - (i) Draw a rough sketch based on the above information.
 - (ii) Draw a scale diagram using the scale 1 cm represents 25km of actual length.
 - (ii) Using the scale diagram describe the location of C from A.
- (07) (a) The sides AB and AC of the ABC triangle has been produced up to D and E respectively. Bisectors of the angle CBD and BCE are intersects at O.
 - (i) Find the magnitude of BOC.
 - (ii) Name 2 parallel lines.
 - (b) Exterior angle of a regular polygon is $\frac{1}{3}$ of the magnitude of an interior angle.
 - (i) Find the magnitude of an exterior angle.
 - (ii) Find the magnitude of an interior angle.
 - (iii) Find the number of sides of the regular polygon.





Grade 00 - Mathematics - Southern Province