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විශාබා විදාහලය කොළඹ - 5, විශාබා විදාහලය කොළඹ - 5, විශාබා විදාහලය කොළඹ - 5, විශාබා විදාහලය කොළඹ Wisakha Vidyalaya Colo ඩ්ගාවා, විදහාලය කොළඹ - 5, Visakha Vidyalaya Colombo						
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තෙවන වාර පරීක්ෂණය 2024 (2024 පෙබරවාරි)						
HISAKA	Third Te	rm Test 2024 (February 20	024)			
	ගණිතය	9 @@@@@	පැය දෙකයි මිනිත්තු 30 යි			
	Mathematics	Grade 9	Two hours 30 minitues			
Name / Index Number :						
Part I						
* Answer all questions on this paper itself.						
1.	1. Write 37 500 in scientific notation.					
	3 2	1				
2.	Simplify. $\frac{1}{8} - \frac{1}{5}$	of $\frac{-}{4}$				
3	Find y					
5.	Tind y.					
			3y $4y$			
4	Which term is 37 in the progres	sion whose general term is $3n$	+ 4.			
-•	. men term is 57 m the progression whose general term is 50 + 1.					
	~					
5.	Simplify. $(3x^2)^2$	$\times 2x^2$				

-2-
6. Solve.
$$\frac{x-1}{2} = 8$$

7. Make 'a' the subject of the formula $S = ut + \frac{1}{2} at^2$
8. Simplify. $\frac{3x}{5} + \frac{7x}{2}$
9. Magnitude of an interior angle of a regular polygon is 150°.
(i) Find the number of sides it has
(ii) What is the special name of this regular polygon.
10. Find the value of x.
11. Find size (width) of the class interval $15-21$
12. Factorize (i) $2x^2 - 98$
(ii) $x^2 - x - 12$

-3-		
Height of a cuboid shape water vessel with a square base is 1 m and the side length of the square base is 50 cm. Find the capacity of it in litres.		
14. Solve the inequality and represent the set of integral solutions on a number line. 2x + 1 > 8		
15. Find the gradient of the given straight line. (0,4) $(0,4)$ $($		
16. Simplify and write the answer as a decimal number.		
$11000_{\text{two}} - 11_{\text{two}} =$		
17. Find the bearing of A from B. N B B A		
18. Find the value of x .		
2x		
$7x$ 108°		
 9. Length of a scale diagram of a study room drawn to the scale 1 : 200 is 5 cm. Find the actual length of it in meters. 		
20. By using your basic knowledge of loci find the locus of a point equi - distant from P and Q and 3 m away from the point P . Draw a rough diagram including all the information.		
р <u></u> О		
$4 \text{ m} \qquad $		



- (ii) Draw the graph of the function y = 2x 3 on suitable a Cartesian plane.
- (iii) Find the, (I) gradient.

(II) Intercept of the above graph.

- (iv) Verify whether the co ordinate (6, 9) is there on the above straight line or not with reasons.
- **4.** By using the straight edge with the scale cm/mm and the pair of compasses and showing the construction lines clearly do the following constructions.
 - (i) Draw a straight line segment AB = 8 cm.
 - (ii) Construct $B\hat{A}C = 90^{\circ}$ at the point A.
 - (iii) Mark the point C by taking AC = 6 cm.
 - (iv) Join the points B and C to complete the triangle ABC.
 - (v) Construct the angle bisectrors of $C\hat{A}B$ and $C\hat{B}A$. Name the intersecting point of them as O.
 - (vi) Construct a perpendicular from O to AB and name it as OD.
 - (vii) Construct a circle by taking O as the centre and OD as the radius.
 - (viii)Measure and Find the length of OD.

5. The following table shows marks received by 40 students of a certain class for a mathematics evaluation held recently.

-5-

Marks (x)	Number of students (f)	$f \times x$
43	2	
44	5	
45	8	
46	10	
47	4	
48	3	
49	2	
50	6	
	$\Sigma f =$	$\Sigma f x =$

- (i) Find the mode mark of the given data.
- (ii) Find the median mark.
- (iii) Copy the above table into your answer script and complete the table.
- (iv) By using the above data find the mean mark of a child.
- (v) Find the percentage of students who got more than 46 marks out of the total number of students of the class.

6. (a) Simplify.
$$\frac{3y+2}{2} - \frac{3y-1}{5}$$

2 5

- (b) * A person bought 2 kg of rice and 3 kg of potato for Rs. 940.
 * Another person bought 5 kg of rice and 3 kg of potato for Rs. 1540 from a certain
 - shop.
 - (i) By taking 1 kg rice as Rs. x and 1 kg of potato as Rs. y build up a pair of simultaneous equations.
 - (ii) By solving them find the price of 1 kg of rice and 1 kg of potato.
- 7. (a) Boat Q is there 4 km away from P in the bearing of 050° and R is there 4 km away from Q in the bearing of 130° .
 - (i) Draw a scale diagram by representing 1 km of real distance by 1 cm.
 - (ii) Write the above scale as a ratio.
 - (iii) Describe the location of P from R.
 - (b) In a bag there are 4 red erasers, 3 blue erasers and one yellow eraser which are identical in all the other aspects. An eraser is Selected at random from this bag.
 - (i) Find the probability of selecting a red colour eraser.
 - (ii) Find the probability of selecting either red or blue clour eraser.



කෙටි සටහන් |පසුගිය පුශ්න පතු |වැඩ පොත් සඟරා | O/L පුශ්න පතු | A/L පුශ්න පතු |අනුමාන පුශ්න පතු |අතිරේක කියවීම් පොත් | School Book ගුරු අතපොත්



පෙර පාසලේ සිට උසස් පෙළ දක්වා සියළුම පුශ්න පතු, කෙටි සටහන්, වැඩ පොත්, අතිරේක කියවීම් පොත්, සඟරා **සිංහල සහ ඉංගුසි වාධාණයන් ගෙදරටව ගෙන්වා ගැනීවට**

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