



பலாந் அபிவிருத்தி அமைச்சு - வடமத்திய மாகாணம்
மாகாணக் கல்வித்திணைக்களம் - வடமத்திய மாகாணம்
Department of Education - North Central Province



Grade 8

Second Term Test - 2024

Time : 2 hours

Subject :- Mathematics

School Name

Index Number

❖ Answer all questions.

01. Write next two terms of 3,5,7,9, ... number pattern

02. Simplify

$$(-18) - (-7)$$

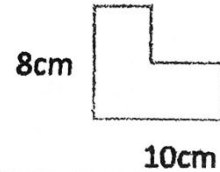
03. Solve the equation, $6x - 8 = 16$

04. Simplify

$$2\frac{1}{3} \times 7\frac{1}{2}$$

05. Fill in the blank, if $15:8 = \square:24$

06. Find the perimeter of given panel figure.

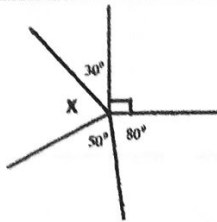


07. Simplify

$$\begin{array}{r} t \quad kg \\ 18 \quad 950 \\ +13 \quad 842 \\ \hline \end{array}$$

08. Write the order of the rotational symmetry of a regular octahedron.

09.



Find the value of x of the following figure.

10. Find the value of the power $(-1)^8$

11. Factorize.

$$bx + by + 5x + 5y$$

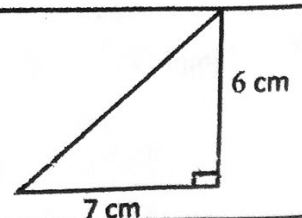
12. If $a = 2$, Find the value of $3(4a-3)$

13. Express $\frac{8}{25}$ as a percentage

14. Find the value of $0.8 \div 1.6$

15. Name two platonic solids.

16. Calculate the area of the following triangle



17. Find the square root of 576 using prime factors.

18. Find the time in Sri Lanka when Greenwich time is 8.30p.m on Tuesday.(the time zone to which Sri Lanka belongs is $+5\frac{1}{2}$)

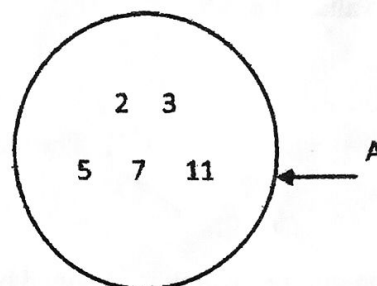
19. If the prevailing price of Rs.1,850 of an object is increased by 10%, Find the new price of the object.

20.

Fill in the blanks with \in or \notin as appropriate.

a) 4 A

b) 2 A



Part II

- ❖ Answer the first question and any other 4 questions only.
- ❖ Answer the questions on this paper itself.

01) .(a)

Complete the following puzzle.

	A			B
			E	
C				
		D		

Down ↓

A: The value of 45×5 (2 Marks)

E: $4884 \div \dots\dots\dots = 22$, The value suitable for the blank (2 Marks)

B: The number which is obtained by subtracting 1 from the half of 50 (2 Marks)

Across →

A: Fifth square number (2 Marks)

C: The value of $5^2 \times 3$ (3 Marks)

E: The value of $5x+4$, if $x=4$ (3 Marks)

D: The value of $12.5 \div 0.1$ (2 Marks)

02) .Nimali started a business on the 1st of January of a certain year by investing Rs.15 000.00. Nithya and Nirmala joined this business by investing Rs.10 000.00 and Rs. 5 000.00 respectively on the 1st of May of that year.

i. Calculate the ratio in which profit should be divided between them at the end of the year.

(3 Marks)

ii. Write above ratio in simplest form

(1 Mark)

iii. If the profit for the year was Rs.150 000.00, Find the amount received by Nirmala and Nithya.

(4 Marks)

iv. When preparing a sweet, flour and Sugar are mixed in the ratio 5:3 and sugar and coconut are mixed in the ratio 2:1. Find the ratio of flour to sugar to coconut in this mixture.

(3 Marks)

03) . (a)

i) Represent $\frac{17}{3}$ as a mixed number.

(1 Mark)

(b) Simplify

i. $\frac{3}{12} + \frac{1}{3} =$

(2 Marks)

ii. $\frac{4}{7} \times \frac{3}{16} =$

(2 Marks)

iii. $\frac{8}{21} \div \frac{1}{7} =$

(2 Marks)

iv) $3\frac{1}{7} \times 2\frac{3}{16} =$

(3 Marks)

v) $(\frac{1}{7} + \frac{2}{3}) \div \frac{7}{15} =$

(3 Marks)

04). Solve each of following equation.

ii) $\frac{2x}{3} = 12$

(3 Marks)

iii) $3(\frac{y}{3} - 1) = 51$

(4 Marks)

- b) The price of a Rambutan is 10 more than twice of the price of an olive.
i) If a price of an olive is x rupees, Construct an algebraic expression for the price of a rambutan.

(1 Mark)

- ii) The total amount of money paid to buy 2 olives and one rambutan is Rs. 90 .00 .
Construct an equation with the above information and solve it.

(3 Marks)

(c)

05)

iii) Express $\frac{3}{5}$ as a percentage.

(2 Marks)

iv) Write the corresponding ratio of 45% in simplest form.

(3 Marks)

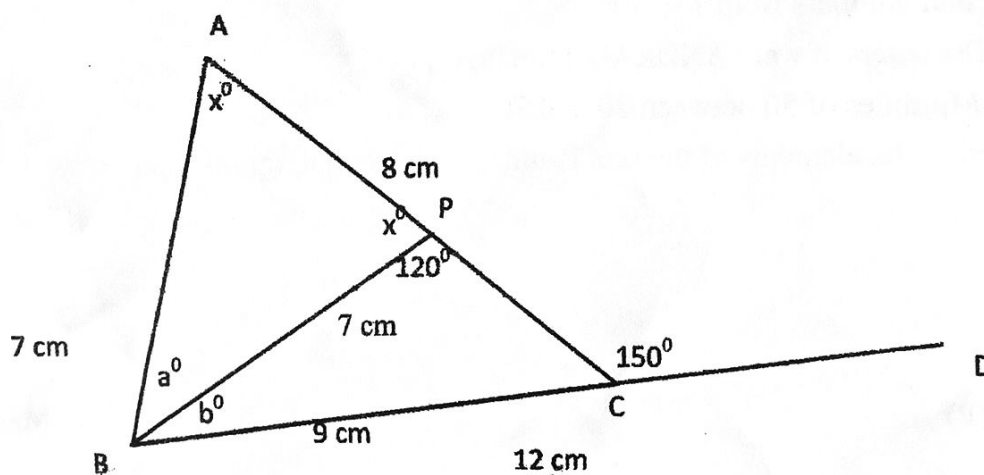
v) If a person who borrowed Rs.7 000 pays Rs.700 as interest at the end of a year,
Write the interest as percentage of the money he borrowed.

(3 Marks)

vi) If the 35% of a certain money amount is Rs. 7 000 , Find the total money

(3 Marks)

04).



i) Name an isosceles triangle.

(2 Marks)

ii) Find the value of x°

(2 Marks)

iii) Find the value of b^0

(2 Marks)

iv) Find the value of a^0

(2 Marks)

v) Write the magnitude of interior angles of ABC triangle separately. (3 Marks)

05) (a) : Complete the table given below

Plain figure	Number of axes of symmetry	Order of rotational symmetry
Equilateral triangle		
Parallelogram		
Rectangle		

(5 Marks)

(b)

$P = \{\text{odd numbers from 1 to 10}\}$

$Q = \{\text{The letters of word ANURADHAPURA}\}$

$R = \{\text{Multiples of 50 between 20 and 30}\}$

i) Represent the elements of the sets P and Q by a Venn diagram separately. (2 Marks)

ii) Find $n(P)$ (1 Mark)

iii) Find $n(Q)$ (1 Mark)

iv)) What is the value of $n(R)$? Write the special name given for the set R (2 Marks)

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නිවසටම ගෙන්වා ගන්න



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පෙර පාසලේ සිට උසස් පෙළ දක්වා සියළුම ප්‍රශ්න පත්‍ර,
කෙටි සටහන්, වැඩ පොත්, අතිරේක කියවීම් පොත්, සඟරා
සිංහල සහ ඉංග්‍රීසි මාධ්‍යයෙන් හෙදරටම හෙත්වා ගැනීමට

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