



பொன் அமைச்சு அமைச்சு - வடக்கு மத்திய மாகாணம்  
மாவட்டக் கல்வித் திணைக்களம் - வடக்கு மத்திய மாகாணம்

Department of Education – North Central Province



Grade 7

Second Term Test - 2024

Time : 2 hours

Mathematics

Subject :- .....

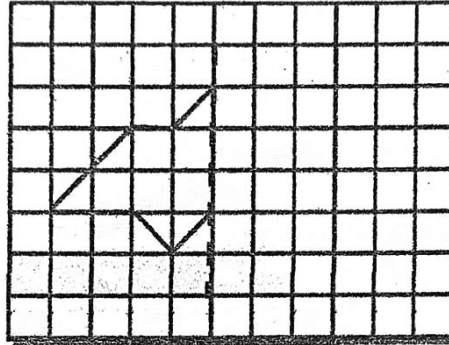
School Name :- .....

Index Number :- .....

Part 1

❖ Answer all the questions on this paper itself.

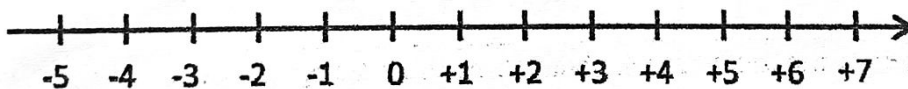
01. Complete the figure so that you obtain a bilaterally symmetric figure.



02. Simplify  $4 + 12 \div 3$

03. Represent the set  $A = \{2, 3, 5, 7\}$  by writing down a common property by which the elements of the set can be clearly identified.

04. Find the value of  $(-2) + (+5)$  by using the number line.



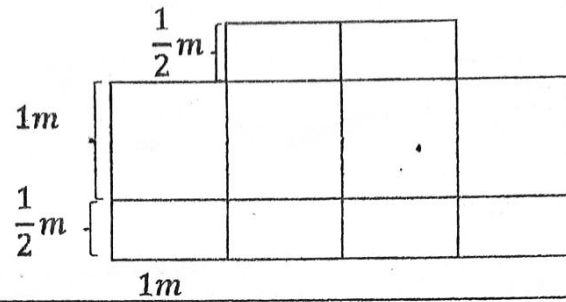
05. My age is  $x$ . Father's age is two years less than three times of my age. Express the father's age as an algebraic expression.

06. Find the suitable value for the blank.

i  $5.379 \times \boxed{\phantom{000}} = 537.9$

ii  $\boxed{\phantom{000}} \div 10 = 2.75$

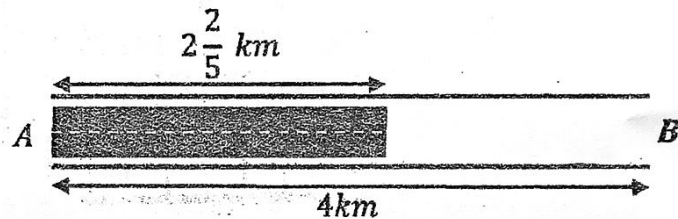
07. The figure shows the grid which arranged to draw a paint on a wall in a school. Find the area of it.



08. Choose the leap years from the years given below.

- i AD 1800    ii AD 1824    iii AD 1792    iv AD 1734

09. The length of the road AB is 4km. It is carpeted for a distance  $2\frac{2}{5}$  km. What is the length of the uncarpeted section?



10. For the statements given below, mark a (✓) in front of the correct statements and a (×) in front of the incorrect statements.

i An angle whose magnitude is  $189^\circ$  is a reflex angle. ☐

ii The angle between the two blades of a pair of scissors is a dynamic angle. ☐

11. Fill in the blanks.

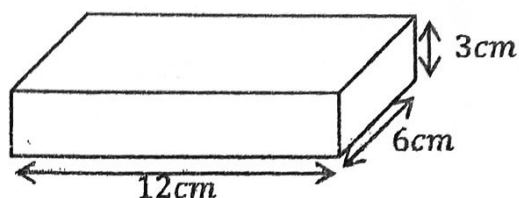
i  $7.25\text{km} = \dots\dots\dots \text{m}$

ii  $302\text{cm} = \dots\dots\dots \text{m}$

12. Find the maximum number of identical parcels that can be made using 12 books, 20 pens and 16 pencils.

13.  $3\text{ kg } 75\text{ g}$  of fertilizer is used to a pit prepared for planting coconut seedlings. How much fertilizer is required for 8 such pits?

14. The figure shows a cuboid shaped block of wood of length, breadth and height equal to 12 cm, 6 cm and 3 cm respectively. Find the maximum number of cubes with a side length of 3 cm that can be cut from it.



15. Regarding the sale of drinks,  $x$  numbers of bottles of drinks are sold per day from Monday to Friday and  $y$  numbers of bottles of drinks are sold on Saturdays and Sundays. If the total number of bottles of beverage sold in one week is  $B$ , construct a formula that contains  $B, x, y$ .

16. When  $x = 2$  and  $y = 5$ , Find the value of  $2x^3y$ .

17. Find the smallest number that is divisible by all three numbers of 8, 12, and 16 using the following information.

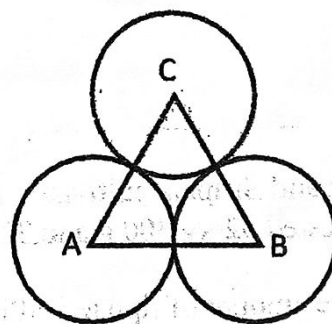
$$8 = 2 \times 2 \times 2$$

$$12 = 2 \times 2 \times 3$$

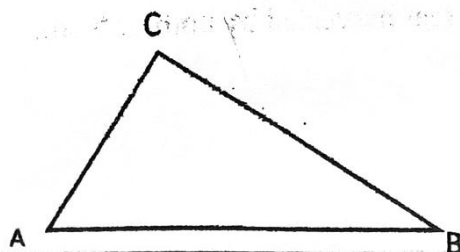
$$16 = 2 \times 2 \times 2 \times 2$$

18. 3l 750ml amount of yogurt drink is poured in equal quantities into 30 small bottles. Find how much amount of yogurt is poured into one bottle.

19. A, B, C are the centers of three circles with diameter of 4cm. Find the perimeter of triangle ABC.



20. Using a square and a straight edge draw a line through C parallel to AB and indicate on the figure that the lines are parallel.



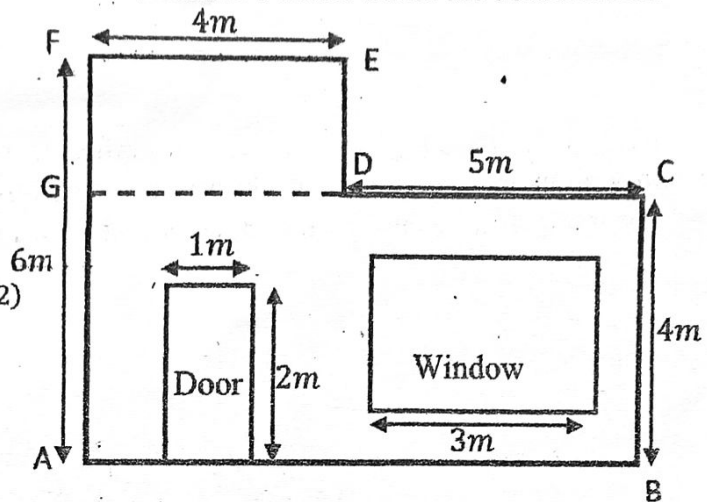
**Answer the first question and another four (04) questions only.**

a) i Write an instrument used to measure length in construction works.

(Mark 01)

(Marks 02)

(Marks 02)



(Marks 03)

(Marks 04)

ii If 10l of paint were brought, find the remaining amount of paint in liters and milliliters.  
(Marks 02)

i Write the amount of ripened cillies that harvested by Siripala in kg and g. (Mark 01)

(Mark 01)

iii Find the total amount of chillies that harvested by both of them.

(Marks 02)

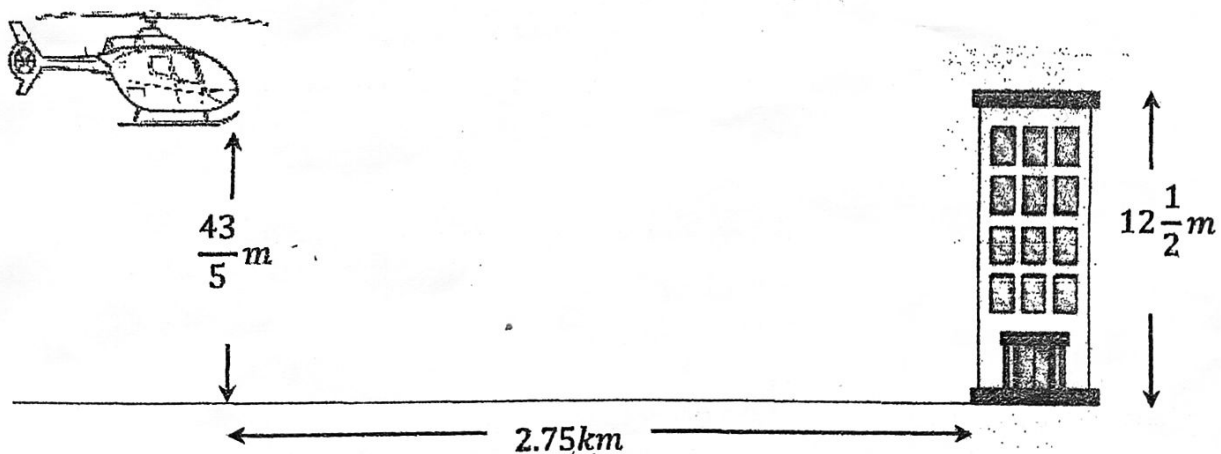


iv If 350g of dried chillies can be obtained by drying one kilogram of ripened chillies, find the mass of dried chillies obtained from the ripened chillies brought by Gunapala and Siripala. (Marks 02)

v If 1 kg of ripened chillies can be sold for Rs 300 and 1kg of dried chillies can be sold for Rs 1000, then which sale is more profitable among them? (Marks 03)

vi They started cultivating chillies in 2022- 03-20 and stopped cultivating chillies and started cultivating a new crop in 2024-09-04. How long did they spend cultivating chillies? (Marks 02)

03. When a pilot flying his helicopter  $\frac{43}{5} m$  above from the level of ground and a  $12\frac{1}{2} m$  tall building was observed from 2.75 km away.



i Write the height of flying helicopter as a mixed number.

(Mark 01)

ii Explain using the knowledge of fractions, If the helicopter moves horizontally forward, it will collide with the building. (Marks 03)

iii At least how much height should the helicopter be taken to avoid a collision? (Marks 03)

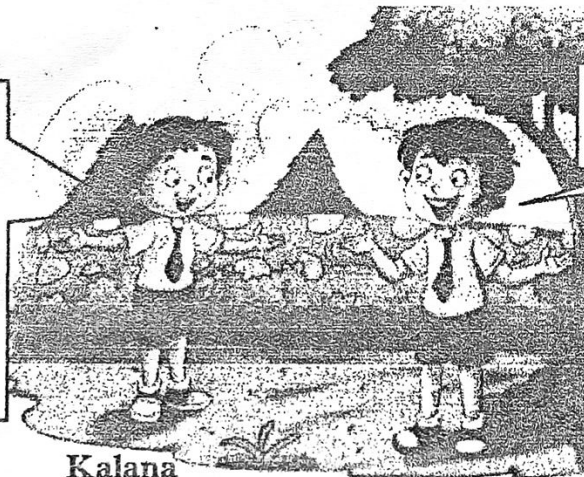
iv Write the distance between the helicopter and building as a mixed number. (Marks 02)

v if the helicopter costs Rs.1000 to travel 1 km, find the cost of traveling 2.75 km. (Marks 02)

04. Kalana and Chathura present a math problem to their friends.

I have certain money.

Chathura has eight rupees more than five times money that I have.



Kalana

Chathura

Both of us have a total of 80 rupees.

i If the money which has Kalana is " $x$ " then construct an algebraic expression for the money which has Chathura. (Marks 02)

ii Construct an algebraic expression for the total amount of money that they have and write it in simplest form. (Marks 02)

iii In the algebraic expression obtained above ii,

a) How many terms are there?

b) Write the unknown.

(Marks 02)

iv Construct an equation for the total amount of money that they have. (Marks 02)

v Solve the equation formed in the above iv and find the amount of money that kalana had. (Marks 03)

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05. Kamal solved a math problem given by the maths teacher as follows. The teacher said that there is a mistake in the answer.

$$\begin{aligned} & 40 + 40 \div (7 - 2) \times 2 \\ & = 80 \div (7 - 2) \times 2 \\ & = 80 \div 5 \times 2 \\ & = 16 \times 2 \\ & = 32 \end{aligned}$$

a) i Solve the above problem correctly.

(Marks 03)

ii Explain the mistake made by Kamal.

(Mark 01)

b) i Express the 56 as a product of its prime factors.

(Marks 02)

ii write two factors of 56 which is not prime factors.

(Marks 02)

iii Express the 56 in index notation with prime numbers as the base.

(Mark 01)

i What is the first number that can be divided by nine and found after the 256. (Marks 02)

06. i Construct a straight line segment AB of length 6cm.

(Marks 02)

ii Construct two circles of radius 3 cm such that A and B as their centers. (Marks 03)

iii Draw the symmetrical axes of the figure obtained above ii.

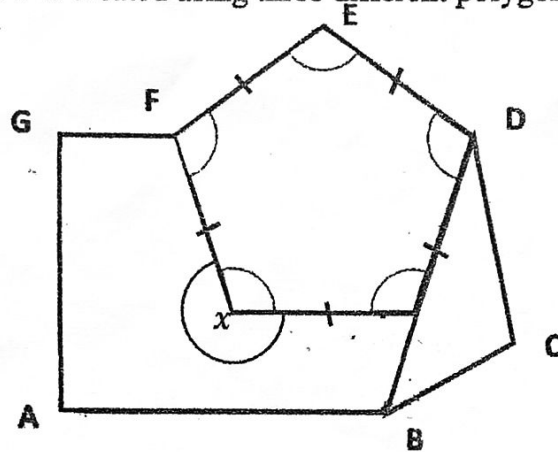
(Marks 02)

iv Name the intersection point of symmetrical axes as "O" and construct the circle of radius OA with O as its center. (Marks 03)

v Find the length of diameter of the circle with O as its center.

(Mark 01)

07. The logo shown as below is created using three different polygon for school maths day.



i Draw a sketch of the concave polygon used for the logo and suggest a name for that polygon based on the number of sides of it. (Marks 02)

ii Measure the magnitude of the angel named as  $x$  in the logo and write the value of it. (Marks 03)

iii if  $\angle B \hat{C} D = 108^\circ$ , Name the type of the triangle used in the logo according to size of the angles of a triangle. (Marks 02)

iv if  $BC = 3\text{cm}$ ,  $CD = 4\text{cm}$ ,  $BD = 6\text{cm}$ , Name the type of the triangle used in the logo according to size of the sides of a triangle. (Marks 02)

v Vishmi says that the logo used a regular pentagon. Giving reasons state whether it is true or false. (Marks 03)



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