

[illegible]**Time - 2 hrs**

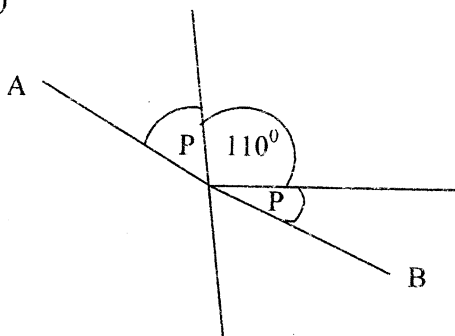
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ජාතික පාසල් පවුර, ශ්‍රී ජයවර්ධනපුර අධ්‍යාපන කලාපය - ජාතික පාසල් පවුර, ශ්‍රී ජයවර්ධනපුර අධ්‍යාපන කලාපය - ජාතික පාසල් පවුර, ශ්‍රී ජයවර්ධනපුර

Part I

- 1) Find the common difference of the number pattern 8, 11, 14

- 2) A trader bought a shirt for Rs. 500 and sold it at Rs. 550. Find
- His profit
 - The percentage profit

3)



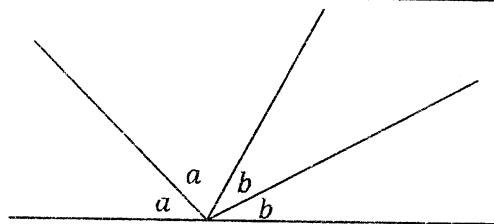
Find the value of P.

- 4) The general term of a number pattern is $T_n = 5n - 3$
Find its 10th term

- 5) Find the value. $12 - (-5)$

6) How many meters are there in $\frac{1}{6}$ of 3 km?

7)



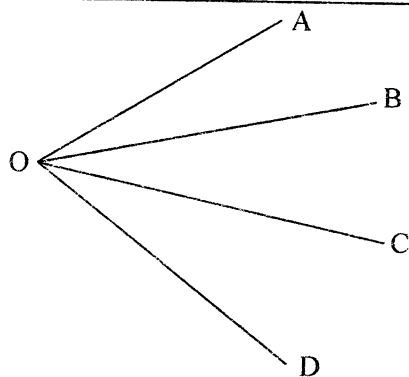
Find the value of $(a + b)$

8) If $x = \frac{2}{3}$ and $y = \left(\frac{-1}{2}\right)$, find the value of $6x - 4y$

9) If $(x + a)(x + 5) = x^2 + bx + 15$, find the value of a and b .

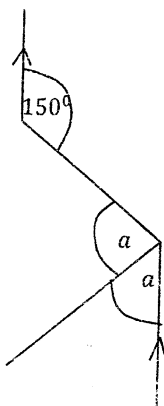
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10)



Name 2 pairs of adjacent angles in the given figure.

11)



Find the value of a

12) $3x - 5 = 10$

Solve using axioms

13) Find the value of $64 \div (6 + 2 - 4) \times 5$

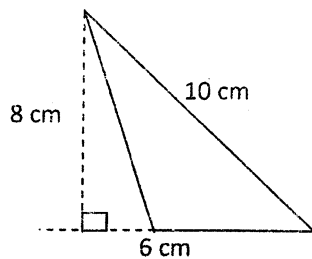
14) 3 kg of sugar can be bought for Rs. 330, Find the price of 500 g of sugar.

15) Find the factors

$$ax - 8a + 4x - 32$$

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16)



Find the area of the triangle.

17) Find the H.C.F. of 24, 12 and 30.

$$24 = 2 \times 2 \times 2 \times 3$$

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

$$30 = 2 \times 3 \times 5$$

H.C.F =

18) Simplify $3\frac{1}{3} \div 1\frac{1}{9}$

19) Find the sum of the numbers from 1 to 100 without using addition.

20) How many liters are there in $1 m^3$?

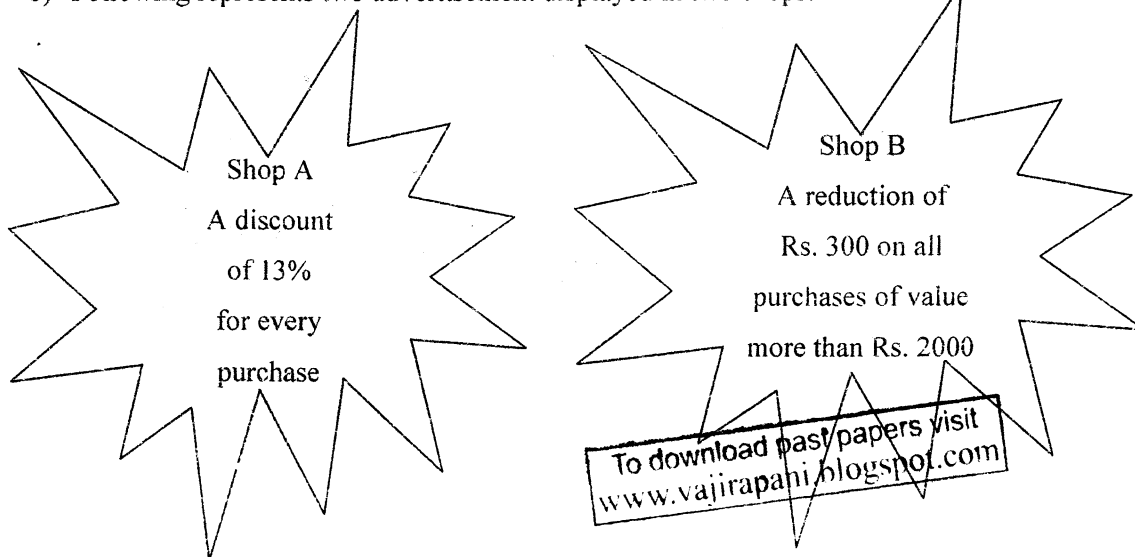
(M = 2 × 20)

Part II

- Answer first question and four other questions.

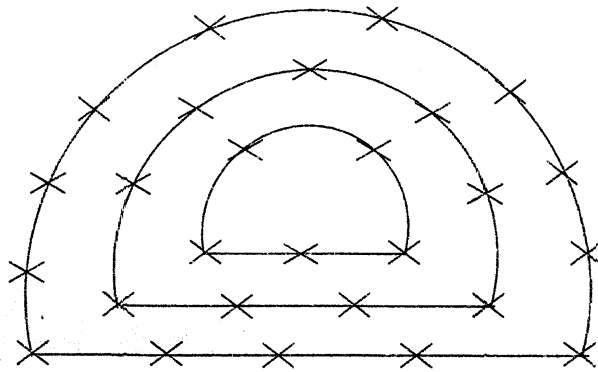
- 1) a) i. State two situations that use percentages in day today life. (2 marks)
- ii. Explain a 'discount' (2 marks)

- b) Following represents two advertisement displayed in two shops.



- i. How much needs to be paid when purchasing a hand bag of marked price Rs. 2500 from shop A? (3 marks)
- ii. How much needs to be paid when purchasing a hand bag which marked the same price from shop B? (2 marks)
- iii. What is the discount percentage offered by shop B for this hand bag? (2 marks)
- iv. Is it more profitable for the customer to buy the hand bag from shop A or Shop B? (2 marks)
- c) 4% commission charged when selling the vehicle. If the paid commission is Rs. 30000, How much the selling price of the vehicle? (3 marks)

2)



The way of arrange the oil lamps in a certain fence of lamps is shows as above. In a interior semi circle consist with 5 lamps. 9 lamps in the second semi circular and 13 is in the third semi circle fence. Whole fence is consist with 9 semi circles.

- i. How many oil lamps are there in total of the first three semi circles from the interior one. (2 marks)
- ii. Build up an expression to find the number of oil lamps in the n^{th} curve. (3 marks)
- iii. Find the number of oil lamps of the last curve by using the general term you obtained above. (3 marks)
- iv. Show that there is no curve having 20 oil lamps in this fence. (3 marks)

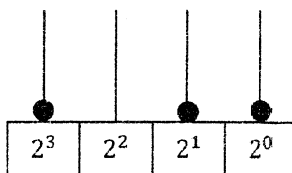
- 3) i. How many numerals use to write the numbers in the decimal number system? What are they? (2 marks)

- ii. How many numerals use to write the numbers in the binary number system? What are they? (2 marks)

- iii. Represent 63 as a binary number (2 marks)

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- iv.

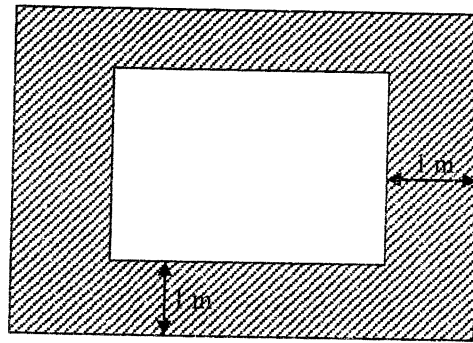


Write the number represented in the abacus.

Represent it as a decimal number. (3 marks)

- v. $10111_{\text{two}} + 1011_{\text{two}} - 11_{\text{two}}$ find the value. (2 marks)

4)



Breadth of the rectangular pond is x meters and its length is 2 meters more than its breadth
grassed lawned region are fixed around the rectangular pond as 1m of breadth.

- i. Write the length of the pond in terms of x . (1 mark)
- ii. Find the length
breadth
of the pond with the grass lawned region.
Mark it on the diagram.
(Draw the diagram on your answer sheet) (3 marks)
- iii. Write down an expression for the area of the pond with the grassed lawned region and simplify it. (2 marks)
- iv. Write down an expression for the area of the pond and simplify it. (1 mark)
- v. Find the area of the grassed lawned region using the answer in (iii), (iv) above. (2 marks)
- vi. Find the area of the grassed lawned region if $x = 2$ (2 marks)

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- 5) a) i. Represent $2\frac{5}{8}$ as an improper fraction. (1 mark)
- ii. Write down the reciprocal of $\frac{3}{7}$ (1 mark)
- iii. Simplify
 $(\frac{2}{3} - \frac{1}{2})$ of $(1\frac{2}{5} \div 2\frac{1}{3})$ (4 marks)

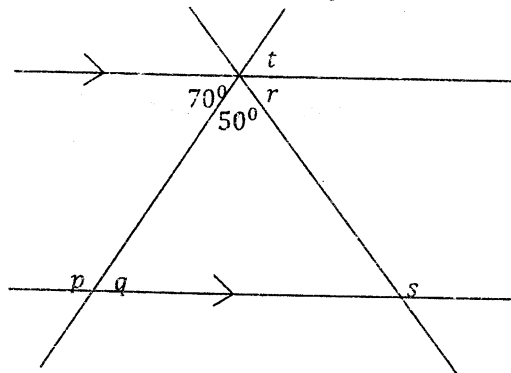
b) Kamal travelled $\frac{2}{3}$ of the whole journey by three-wheeler, $\frac{2}{9}$ by bus and remaining distance by foot. If the distance he walked is 1 km,

- How much the total distance he travelled by the three-wheeler and by bus? (2 marks)
- How much the distance he travelled by foot as a fraction of the total distance? (1 mark)
- How much the total distance of the journey? (2 marks)

6) i. Write down two basic axioms.

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(2 marks)



ii. Fill in the blanks using the diagram given.

q = (..... angle)

$P + 70 =$ (..... angle)

P =

S = + 50 (Alternate angle)

S =

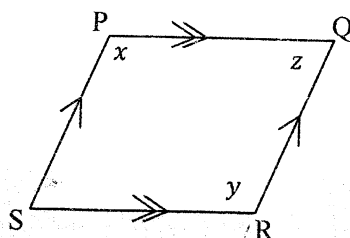
t = q (..... angle)

$r + s =$ (Allied angle)

$\therefore r =$

(6 marks)

iii.



According to the data given the diagram, show that

$$x = y$$

(3 marks)

7) a) Length, breadth and height of the water tank in the house are 1.5 m, 1 m and 90 cm respectively.

- i. Write down the length, breadth and height of the tank as a ratio and represent it in the simplest form. (2 marks)
- ii. How much the volume of the tank? (3 marks)
- iii. How much the capacity of the water tank in liters? (2 marks)
- iv. If a person used 150 l of water per day, for how many people these quantity of water sufficient per day? (2 marks)

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b) Find the factors

$$2a^2 - 18$$

(2 marks)

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විභාග ඉලක්ක පහසුවෙන් ජයගන්න

ඕනෑම පොතක් ඉක්මනින්
නිවසටම ගෙන්වා ගන්න



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කෙටි සටහන්, වැඩ පොත්, අතිරේක කියවීම් පොත්, සඟරා
සිංහල සහ ඉංග්‍රීසි මාධ්‍යයෙන් හෙදරටම හෙත්වා හැකිවට

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