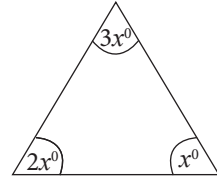




7. Factorize  $x^2 - 4x - 5$

8. Find the value of  $x$  in the given diagram.



9. Simplify the following binomial expression.

$$(x - 3)(x + 2)$$

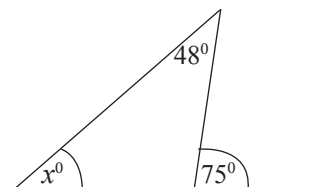
10. The cost of production of an article is Rs. 500 and sold it at Rs. 400, find the percentage loss obtained by selling each article.

11. Sachi calculated the percentage of  $\frac{4}{5}$  using a calculator. The keys that he used is given below in order. But the symbols of some keys were erased, write the missing symbols in relevant box.

ON	4	.....	5	.....	
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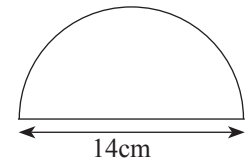
12. Represent in index form of  $\log_3 81 = 4$

13. Using the information given in the figure. Find the value of  $x$ .



14. Solve  $\frac{x}{3} - 4 = 1$

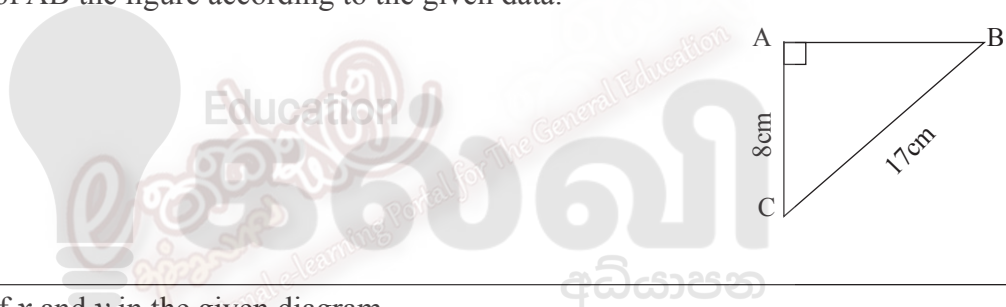
15. The figure shows a semi circle, find the perimeter of it.



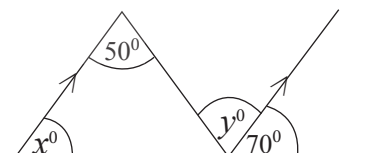
16. Make  $f$  the subject of the formula

$$v = u + ft$$

17. Find the length of AB the figure according to the given data.



18. Find the value of  $x$  and  $y$  in the given diagram.



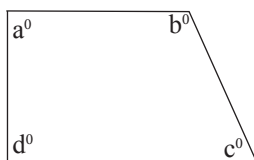
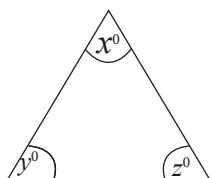
19. Find the gradient and the intercept of the graph of the equation  $y = 2x - 3$

20. The capacity of a vessel is  $3\text{m}^3$  Find in liters.

## PART II

- Write the answers for the **question number 1 and four others** on a separate paper and attach it to the Part I.
- Question No 1 carries 16 marks and, all the others get 11 marks each.

1. a) Recollect the activity that you have done with the assistance of your mathematics teacher, regarding the angles of triangles and quadrilaterals.

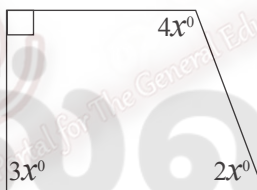
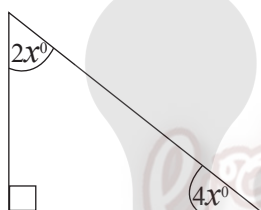


i) What are the values of  $x + y + z$  and  $a + b + c + d$ ?

ii) Write the ratio

$(x^\circ + y^\circ + z^\circ) : (a^\circ + b^\circ + c^\circ + d^\circ)$  in its simple form

iii) According to the figures find the value of  $x$ .



- b) i) A train covers 60km in one hour. Find the time the train takes to travel 420 km.  
 ii) A train takes Rs. 100 to travel 120km. Find the cost the train takes to travel 420 km.
- c) i) Solve  $5(x - 3) = -2 + 3(x + 1)$   
 ii) Solve the pairs of simultaneous equations given below and find the value of  $x$  and  $y$ .

$$4x - 3y = -2$$

$$x - 3y = -5$$

2. a) Find the factors of the following algebraic expressions.

i)  $4x^2 - 100y^2$

ii)  $x^2 - y^2 - x + y$

iii)  $4 - 3x - x^2$

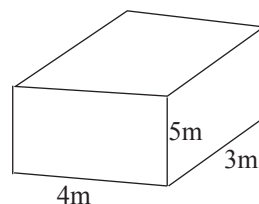
iv)  $kx - my - ky + mx$

b) Express in

i) cubic centimeters

ii) litres

the capacity of the following container.

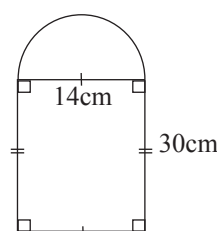
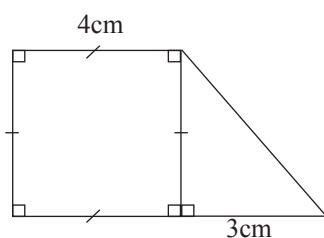


3. a) Simplify  $(4\frac{1}{5} \div \frac{14}{15}) \times 4\frac{1}{3}$
- b) Mr. Silva made a cash donation to a community centre  $\frac{2}{7}$  of the total amount he denoted was used to buy musical instruments and  $\frac{1}{2}$  to buy sports equipment.
- i) Find what fraction of the total amount was used to buy the musical instruments and sports equipment.
- ii) The amount remaining was used to buy books. Find what fraction of the total amount was used to buy books.

4. a) Simplify
- i)  $\frac{x^3 \times 2y^4}{x^2 \times y^5}$                       ii)  $\frac{(x^3)^2 \times x^5}{x^4}$
- iii)  $\log_x 125 = y$  write one suitable pair of numbers for  $x$  and  $y$ .
- b) A person who borrowed Rs. 40 000 at 10% annual simple interest pays back the loan with the interest after 3 years
- i) Find the interest after 3 years.
- ii) What is the amount he has to pay to get released from the loan?

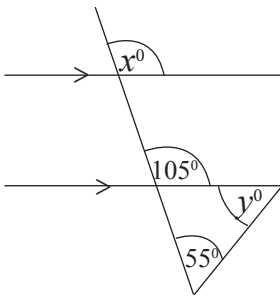
5. Use only a straight edge with a cm/mm scale and a pair of compasses for the following constructions show the construction lines clearly.
- i) construct the straight line segment AB which is 7.5cm long. Construct an angle  $\hat{BAC} = 60^\circ$
- ii) Construct the straight line segment AC and mark the point C on the straight line segment which is 6cm away from A.
- iii) Complete the triangle ABC.
- iv) Construct the locus of the point which moves equidistant from AB and AC Mark the point D where the locus meet BC.

6. a) Find the perimeter of the following shapes shown in the diagrams.
- i)

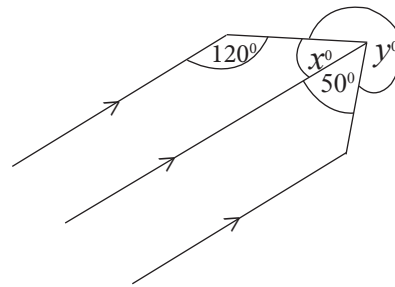


b) Find the value of  $x$  and  $y$  according to the data given in the figures.

i)

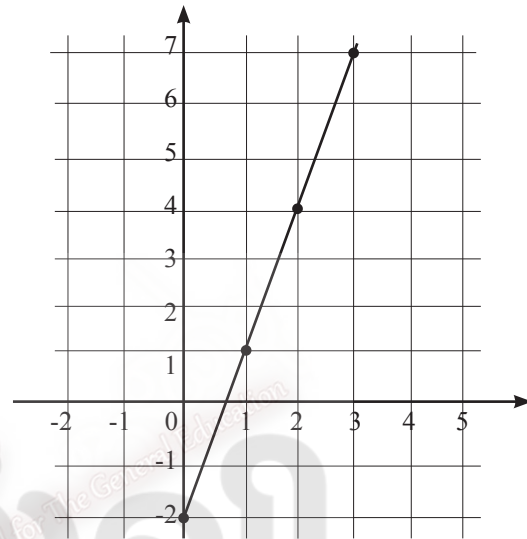


ii)



7. a) In the given graph of the straight line

- i) What is the intercept
- ii) Find the gradient
- iii) Using the gradient and the intercept write the equation of the straight line



b) Find

- i) the gradient
- ii) the intercept and the equation of the straight line that joins the points (1, -3) and (2, -1)

தரம் 01 - 10

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