

Mathematics I, II

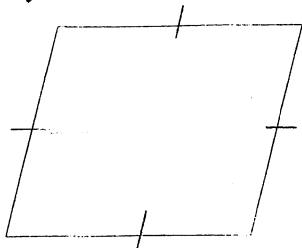
Time: 1 ½ hours

Name:

Class: ...

Answer all the questions.

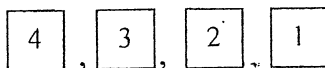
1. Draw all the symmetrical axes in the given Rombus.



2. Write today's date in standard form.....

3. $4.512 \times 100 =$

4. Write two numbers that are divisible by 4, using digit cards of



5. $A = \{ \text{Multiples of 3 between 20 and 40} \}$

Write down the set A by listing its elements.

6. Expand and write the expression X^5y^2

7. 541 3 2 is a five digit number, It is exactly divisible by 4. What are the suitable two digits for the blanks.

8. Simplify $180 - 8 \times 9 + 2$

9. What is the starting date of 21st century in standard form.

10. Write one example for each static angle and dynamic angle.

11. Represent letters of the word "HAMBANTHOTA" by a venn diagram.

12. Write 64, in index notation with 4 as the base.

13. if 2 76 this number can be divisible by 9. Which digit has to be used to fill the blank

14. Underline the year which ^{are the leap year} is the leap year among the given years.

AD0820,

AD1914,

AD1700,

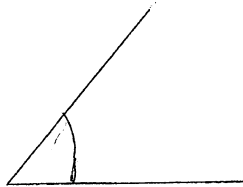
AD1600

15. Simplify $(-2.95) + (+0.95)$

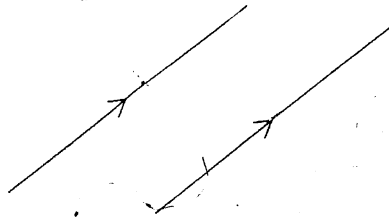
16. Find the value of $2^4 \times 5^3$

17. Find the value of $(-10) + (-6)$

18. measure and write the magnitude of the following angle.



19. Measure and write the perpendicular distance between given two parallel straight line.



20. Write the largest fraction from $\frac{3}{4}$, $\frac{4}{5}$ in simplest form.

(marks $2 \times 20 = 40$)

Mathematics -II

Answer five questions only.

01. a) Find the value using the number line.

I. $(+2) + (+4)$

II. $(+7) + (-3)$

III. $(-4) + (-6)$

b) Find the value without using the number line.

I. $(-5) + (-9)$

II. $(+7) + (-7)$

III. $\left(-\frac{5}{9}\right) + \left(-\frac{2}{9}\right)$

(Marks 2x6=12)

02. Do the following additions.

a) I. Years Months Days

8	05	23
+ 6	06	07

II. Years Months Days

3	05	18
+ 2	08	20

III. Years Months Days

18	05	07
- 4	05	20

IV. Nuwan's date of birth is 2005-10-29

What is his age on this day?

(Marks 3x4=12)

03. a) Write 90 as a product of prime factors. -

b) I. Find the highest common factor(HCF) of 12, 30 and 42

II. Find the LCM of 6, 8 and 16

III. If $X=1$ and $Y=5$. Find the value of $3X^4Y^2$

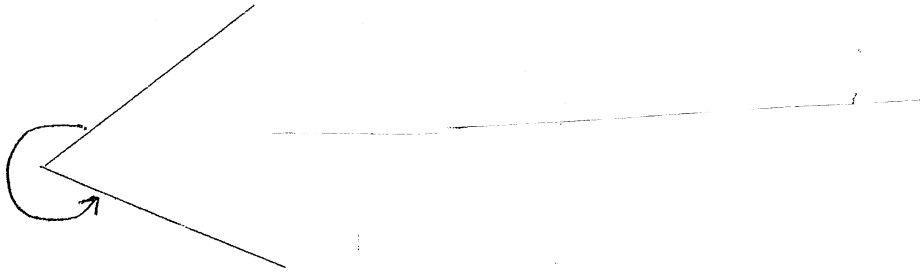
(Marks 3x4=12)

04. a) Measure and write the magnitude of the following angle.

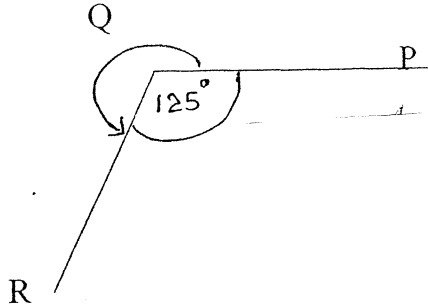
I.

II.

III.



b) Calculate magnitude of $\hat{PQR}$ Reflex angle.



(Marks $3 \times 4 = 12$)

05. a) Simplify

I. $5 + 2 \times 8$

II. $70 \div 7 \times 5$

III. $9 + 2 \times 5 - 5$

b) Using a straight edge and a set square draw a square of side length 6cm.

(Marks $3 \times 4 = 12$)

06. a) I. $A = \{ 1, 3, 5, 7 \}$ represent set A in terms of a common property of its elements.

II. $P = \{ \text{factors of } 12 \}$ Write down set P by listing its elements.

III. $x = \{ \text{Multiples of } 7 \text{ between } 50 \text{ and } 80 \}$ represent the set x by a venn diagram.

IV. Using the digit of the numbers "55660" by write all the elements as a set within curly brackets.

(Marks $3 \times 4 = 12$)