# **PRITHWI SECONDARY BOARDING SCHOOL** Basundhara, Kathmandu, Contact: 01-5904816

**ANNUAL EXAMINATION - 2077**

**Grade: VII Full Marks: 50**

**Subject: Compulsory Mathematics Pass Marks: 20**

**Time: 1 hour 30 minutes**

**Group A [20 \* 1 = 20]**

**1) Select the correct answer from the given options.**

a) The greatest number that divides 12 and 18 without leaving remainder is:

i) 3 ii) 6 iii) 9

b) Which of the following number is exactly divisible by 6:

i) 456 ii) 441 iii) 455

c) What is the L. C. M. of 12and 18?

i) 24 ii) 36 iii) 60

d) If the L.C.M. of 8 and 12 is 24, then its H.C.F. will be:

i) 2 ii) 4 iii) 6

e) What is the product of 4 and sum of 5 and 7?

i) 48 ii) 36 iii) 24

f) What is the product of ?

i) ( -52) ii) ( -54 ) iii) (+54)

g) What is the quotient of (-72)(+9)?

i) (+8) ii) (-8) iii) -64

h) 12/12 rose plants are planted along the length and breadth of a square garden. How many plants are there in the garden?

i) 144 ii) 36 iii) 256

i) What is the square of 0.9

i) 0.81 ii) 8.10 iii) 0.081

j) After simplifying of 18 – { 5 – ( 7 + 8 )} we get:

i) 8 ii) 18 iii) 28

k) The simplified form of  is:

i) 5 ii) 6 iii) 8

l) Centimeters are there in 3.6 meters.

i) 360cm ii) 36cm iii) 3600cm

m) What is the ratio of 15 cm and 12cm. Add:

i) 4:5 ii) 5:4 iii) 5:3

n) What is the value of ?

i) 450 ii) 400 iii) 550

o) What is the value of 25% of 360?

i) 50 ii) 60 iii) 90

p) If x=2 and y = 0. What is the value of xy.

i) 1 ii) 2 iii) 0

q) What is the product of .

i) - 10a2b2c2 ii) 10a2b3c2 iii) - 10a2b3c2

r) What is the quotient of (28xy)3 (4xy)2?

i) 7xy ii) 7(xy)2 iii) 8xy

s) If xo and 75o make an angle halfturn, then the size of xo is:

i) 125o ii) 115o  iii) 105o

t) The size of acute angles of a right-angled isosceles triangle is:

i) 90o  ii) 45o iii) 30o

**Group B [10 \* 1 = 10]**

**2) Fill in the blanks**

a) If the antecedent is 9 and consequent is 5, the ratio is---------------.

b) The unit cost of a pen drive is Rs 450, then the cost of 4 pen drives = ---------------.

c) The expanded forms of 0.68 = ------------ -+- -------------------.

d) The product of two integers of opposite sign is a ------------------- integer.

e) The expanded forms of (m + n)2 is ---------------------.

f) The product of (a + b) (a – b) is -------------------.

g) If two opposite interior angles of an exterior angle of a triangle are 50o and 70o, then the size of the exterior angle is -----------------.

h) If po and qo are a pair of co-interior angles between the parallel lines, then po + qo =-------------

i) If ao and 115o are the opposite angles of a parallelogram, then ao = --------------------.

j) The sum of the interior angles of a polygon with n number of sides is obtained by the formula ------------------------

**Group C [5 \* 4 = 20]**

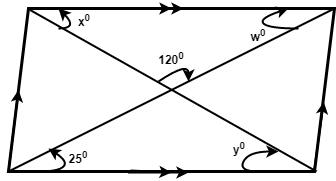
3) Simplify: 

4) 10 workers can finish a piece of work in 18 days. How many workers are required to finish the work in 12 days.

5) Simplify: .

6) Multiply: (3x2 + 2x – 4) by (2x -3).

7) Calculate the unknown sizes of the angles of the adjoining parallelogram.



*Best Wishes!!!*