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

**ANNUAL EXAMINATION - 2077**

**Grade: VI Full Marks: 50**

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

**Time: 1 hour 30 minutes**

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

**1. Choose the correct answers.**

a) What are the prime factors of 45?

i) 2, 3, 5, 7 ii) 3, 3, 5 iii) 1, 3, 3, 5

b) Find the product of 7 and sum of 4 and 5.

i) 63 ii) 53 iii) 43

c) What is the product of ?

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

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

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

e) Which one is the square number in the following numbers?

i) 8 ii) 27 iii) 36

f) What is the cube root of 64?

i) 4 ii) 8 iii) 12

g) Which of the following number is exactly divisible by 3.

i) 256 ii) 441 iii) 455

h) What is the L. C. M. of 12 and 15?

i) 45 ii) 55 iii) 60

i) If the L.C.M. of 6 and 7 is 42, then its H.C.F. will be:

i) 1 ii) 6 iii) 7

j) A fraction with numerator less than the denominator is called:

i) Mixed number ii) Proper fraction iii) improper fraction

k) The fraction equivalent to  is:

i)  ii)  iii) 

l) What is the difference of 8.72 and 0.872?

i) 0 ii) 78.48 iii) 7.848

m) What should be added to 64.35 to make 100?

i) 35.65 ii) 53.55 iii) 36.75

n) What is the value of ?

i) 450 ii) 300 iii) 250

o) What is the value of 25% of 60?

i) 15 ii) 20 iii) 25

p) If x = 2 and y = 3 , what is the value of 3(x + Y)?

i) 18 ii) 15 iii) 10

q) What should be added to 9x to get 15x?

i) 12x ii) 8x iii) 6x

r) What is the product of .

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

s) What is the measurement of Straight angle?

i) 1800  ii) 2700  iii) 3600

t) If x0 and 400 make a right angle, What is the value of x0.

i) 600  ii) 500  iii) 400

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

**2. Fill in the blank.**

a) The numbers that cannot be divided by 2 are called ------------------numbers.

b) A number divisible by both 2 and 3 is also divisible by -------------------.

c) If the unit cost of a book is Rs 150, then the cost of 6 books = -----------------.

d) The expanded forms of 0.74=------------- -+- -------------------.

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

f) The quotient of 12p6 4p3 = -----------------.

g) If x = 2 and y = 3, then 4x = -----------,5y = -------------

h) If the sum of two angles is equal to 90o, they are called ----------------.

i) The angle made by circle is------------------.

j) If xo and 110o are co-interior angles, then the size of xo is -----------------.

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

3) Simplify: .

4) Mr. Ramesh bought a pen drive for Rs 1500 and sold it for Rs 1575. Find his profit and profit percent.

5) There are 360 students in a school 198 of them are boys.

a) Find the percentage of the boys.

b) Find the percentage of the girls.

6) Multiply: (2x + 3y) (x + y + 5)

7) Find the size of unknown angles

750

a0

b0

a0

c0

A

B

C

D

E

F

G

*Best Wishes!!!*