## 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: ii) 441 i) 456 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  $(-3)\times(+9)\times(-2)$ ? i) (-52) ii) (-54) iii) (+54) g) What is the quotient of  $(-72) \div (+9)$ ? 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  $\sqrt[3]{8x27}$  is: i) 5 ii) 6 iii) 8 1) Centimeters are there in 3.6 meters.

iii) 3600cm

ii) 36cm

i) 360cm

m) What is the ratio	of 15 cm and 12d	cm. Add:	
i) 4:5	ii) 5:4	iii) 5:3	
n) What is the value	e of $\frac{5}{6}$ of 480?		
i) 450	ii) 400	iii) 550	
o) What is the value	e of 25% of 360?		
i) 50	ii) 60	iii) 90	
p) If $x=2$ and $y = 0$ .	What is the value	e of x <sup>y</sup> .	
i) 1	ii) 2	iii) 0	
q) What is the produ	ct of $(-5ab) \times (-2ab)$	$(2abc) \times bc$ .	
i) $-10a^2b^2c^2$	ii) $10a^2b^3c^2$	iii) - $10a^2b^3c^2$	
r) What is the quotie	ent of $(28xy)^3 \div (4$	$(xy)^2$ ?	
i) 7xy	ii) $7(xy)^2$	iii) 8xy	
s) If x° and 75° make	e an angle halftur	n, then the size of x° is:	
i) 125°	ii) 115°	iii) 105°	
t) The size of acute a	angles of a right-a	angled isosceles triangle	is:
i) 90°	ii) 45°	iii) 30°	
	Grou	p B [10 * 1 = 10]	
2) Fill in the blank	S		
a) If the antecedent i	s 9 and conseque	ent is 5, the ratio is	
b) The unit cost of a	pen drive is Rs 4	150, then the cost of 4 pe	en drives =
c) The expanded for	ms of $0.68 =$		
d) The product of tw	o integers of opp	oosite sign is a	integer.
e) The expanded for	ms of $(m + n)^2$ is		
f) The product of (a	+ b) (a - b) is		
g) If two opposite in the size of the exteri	_		ngle are $50^{\circ}$ and $70^{\circ}$ , then
h) If p <sup>o</sup> and q <sup>o</sup> are a	pair of co-interio	or angles between the pa	nrallel lines, then $p^{o} + q^{o}$
	the opposite angle	es of a parallelogram, th	en a° =
j) The sum of the in the formula	_	polygon with n number	r of sides is obtained by

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

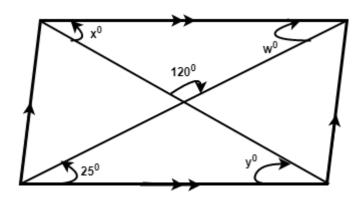
3) Simplify:  $21 \div [5 + 16 \div 2\{6 - 18 \div (7 + 2)\}]$ 

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:  $\frac{3}{10} + \left\{ \frac{4}{15} + \frac{2}{3} \left( \frac{16}{25} \div \frac{4}{5} + \frac{1}{10} \right) \right\}$ .

6) Multiply:  $(3x^2 + 2x - 4)$  by (2x - 3).

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



Best Wishes!!!