

PRITHWI SECONDARY BOARDING SCHOOL

Basundhara, Kathmandu, Contact: 01-5904816

ANNUAL EXAMINATION - 2077

Grade: VI

Subject: Compulsory Mathematics

Time: 1 hour 30 minutes

Full Marks: 50

Pass Marks: 20

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 $(-3) \times (+9) \times (-2)$?

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

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

- 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 $\frac{5}{6}$ is:

- i) $\frac{8}{9}$ ii) $\frac{10}{12}$ iii) $\frac{14}{16}$

- 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 $\frac{5}{6}$ of 360?
 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 $(-5ab) \times (-2abc) \times bc$.
 i) $-10a^2b^2c^2$ ii) $10a^2b^3c^2$ iii) $-10a^2b^3c^2$
- s) What is the measurement of Straight angle?
 i) 180° ii) 270° iii) 360°
- t) If x° and 40° make a right angle, What is the value of x° .
 i) 60° ii) 50° iii) 40°

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 $12p^6 \div 4p^3 =$ -----.
- g) If $x = 2$ and $y = 3$, then $4x =$ -----, $5y =$ -----
- h) If the sum of two angles is equal to 90° , they are called -----.
- i) The angle made by circle is-----.
- j) If x° and 110° are co-interior angles, then the size of x° is -----.

Group C [5 * 4 = 20]

3) Simplify: $2\frac{1}{2} + \frac{1}{4} \times \frac{2}{5} \div \frac{3}{10} - \frac{1}{6}$.

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

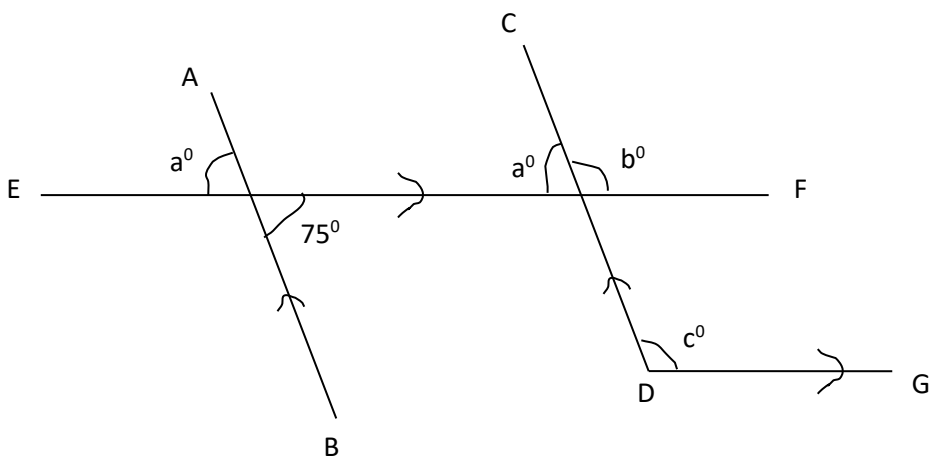
5) There are 360 students in a school 198 of them are boys.

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



Best Wishes!!!