The City School

North Nazimabad Boys Campus

Comprehensive Paper Mathematics

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**Class: 9 (N, E)**

1. Evaluate: [2]
2. $\frac{4}{7}+\frac{3}{5}$
3. 0.3 × 2.9
4. Express as single denominator: [2]

$\frac{1}{x+1}$ - $\frac{1}{x-2}$

1. Factorize: [2]

*x2-* 3*x –* 10

1. If q is inversely proportional to P, and q=60, when P=2
2. Form an equation connecting P and q [2]
3. Calculate q when P = 5 [2]
4. If $V^{2}=\frac{2\left(E-mgh\right)}{m}$
5. find the value of V, when E = 1000, m = 5, g=15, h =10 [2]
6. make E as subject of formula [2]
7. Is the triangle ABC whose sides are 8cm, 6cm and 10cm a right angled

triangle? [2]

1. Solve the inequality [2]

2*x* + 3 ≤ 13

1. Find the principal amount at 6% if the simple interest for 5 months is $30 [2]
2. Write down the appropriate property of congruency [2]





1. The marks obtained by 20 students of class in Mathematics test are given below. [3]

Calculate the mean mark

|  |  |
| --- | --- |
| Marks | No of Students |
| 0 – 10 | 3 |
| 10 – 20  | 4 |
| 20 – 30 | 5 |
| 30 – 40 | 3 |
| 40 - 50 | 5 |