# Nalanda Collage – Colombo 10

## Grade 09 – Third Term

## Unit Test 26

## Mathematics

## Algebraic Fractions

$1\frac{1}{4}$ hours

**Part I & II**

Simplify and keep the answer in simplest form.

1. $\frac{x}{7} + \frac{x}{7}$
2. $\frac{4a}{8} + \frac{10a}{8}$
3. $\frac{9b}{11} - \frac{4b}{11} + \frac{3b}{11}$
4. $\frac{2p}{12} - \frac{7p}{12} + \frac{9p}{12}$
5. $\frac{4y}{7} - \frac{3y}{7} - \frac{8y}{7}$
6. $\frac{2x+1}{3} + \frac{4x-3}{3}$
7. $\frac{9p-2}{8} + \frac{2p+7}{8} - \frac{3p-3}{8}$
8. $\frac{x}{2} + \frac{3x}{6}$
9. $\frac{2p}{7} + \frac{p}{14}$

10. $\frac{5x}{4} - \frac{3x}{12}$

11. $\frac{2x}{3} - \frac{3x}{2} + \frac{x}{6}$

12. $\frac{5m}{7} - \frac{2m}{14} + \frac{m}{21}$

13. $\frac{2a-3b}{4} + \frac{5a+4b}{8}$

14. $\frac{3x+y}{10} + \frac{2x+y}{15} + \frac{x-5y}{20}$

15. $\frac{5}{2a} + \frac{2}{2a}$

16. $\frac{4}{5p} + \frac{2}{5p}$

17. $\frac{2}{4m} + \frac{7}{4m} - \frac{3}{4m}$

18. $\frac{7}{2x+y} + \frac{9}{2x+y} - \frac{3}{2x+y}$

19. $\frac{17}{3s-2t} - \frac{3}{3s-2t}$

20. $\frac{7}{3t-1} + \frac{2}{3t-1}$



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