

### Additional problems on fractions

Write the following as a single fraction

1.  $\frac{2}{5} + \frac{3}{5} - \frac{1}{5}$

2.  $\frac{2}{10} + \frac{3}{5} - \frac{1}{5}$

3.  $\frac{2}{3} + \frac{3}{5} - \frac{1}{5}$

4.  $\frac{2}{5} + \frac{3}{5} - 1$

5.  $\frac{x}{5} + \frac{x}{5} - \frac{x}{5}$

6.  $\frac{2x}{5} + \frac{3x}{5} - \frac{x}{5}$

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

8.  $x + \frac{3x}{5} - \frac{x}{5}$

9.  $\frac{2}{10x} + \frac{3}{5x} - \frac{1}{5x}$

10.  $\frac{x}{5} - \frac{1}{x}$

11.  $\frac{2}{7} \times \frac{3}{2}$

12.  $\frac{2}{5} \times \frac{3}{5} \times \frac{1}{5}$

13.  $\frac{2}{5} \times \frac{3}{5} \times \left(-\frac{1}{5}\right)$

14.  $\frac{x}{5} \times \frac{x}{5} \times \frac{1}{5}$

15.  $\frac{x}{5} \times \frac{x}{5} \times \frac{1}{5x}$

16.  $\frac{x}{5} \times \frac{x}{5} + \frac{1}{5}$

17.  $\frac{x}{5} \times \frac{x}{2} \times \frac{4}{3}$

18.  $\frac{x}{5} \left(\frac{x}{5} - \frac{1}{5}\right)$

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

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

### Answers

1.  $\frac{4}{5}$    2.  $\frac{3}{5}$    3.  $\frac{16}{15}$    4.  $\frac{0}{5} = 0$    5.  $\frac{x}{5}$

6.  $\frac{4x}{5}$    7.  $\frac{4}{x}$    8.  $\frac{7x}{5}$    9.  $\frac{3}{5x}$    10.  $\frac{x^2 - 5}{5x}$

11.  $\frac{3}{7}$    12.  $\frac{6}{125}$    13.  $-\frac{6}{125}$    14.  $\frac{x^2}{125}$    15.  $\frac{x}{125}$

16.  $\frac{x^2 + 5}{25}$    17.  $\frac{4x^2}{30}$    18.  $\frac{x^2 - x}{25}$    19.  $\frac{x + 1}{2(x - 1)}$    20.  $\frac{2x}{x - 1}$