

1. $\frac{4}{15} + \frac{2x}{33} = \frac{4}{15} \cdot \frac{11}{11} + \frac{2x}{33} \cdot \frac{5}{5} = \frac{44}{165} + \frac{10x}{165} = \frac{44 + 10x}{165}$
2. $\frac{x}{48} - \frac{7}{30} = \frac{x}{48} \cdot \frac{5}{5} - \frac{7}{30} \cdot \frac{8}{8} = \frac{5x}{240} - \frac{56}{240} = \frac{5x - 56}{240}$
3. $\frac{3}{x} + \frac{4}{25} = \frac{3}{x} \cdot \frac{25}{25} + \frac{4}{25} \cdot \frac{x}{x} = \frac{75}{25x} + \frac{4x}{25x} = \frac{75 + 4x}{25x}$
4. $\frac{2}{45x} + \frac{6}{35} = \frac{2}{45x} \cdot \frac{7}{7} + \frac{6}{35} \cdot \frac{9x}{9x} = \frac{14}{315x} + \frac{54x}{315x} = \frac{14 + 54x}{315x}$
5. $\frac{11}{150x} + \frac{7}{36} = \frac{11}{150x} \cdot \frac{6}{6} + \frac{7}{36} \cdot \frac{25x}{25x} = \frac{66}{900x} + \frac{175x}{900x} = \frac{66 + 175x}{900x}$
6. $\frac{2}{21x} + \frac{3}{98x} = \frac{2}{21x} \cdot \frac{14}{14} + \frac{3}{98x} \cdot \frac{3}{3} = \frac{28}{294x} + \frac{9}{294x} = \frac{37}{294x}$
7. $\frac{1}{12x} + \frac{5}{9y} = \frac{1}{12x} \cdot \frac{3y}{3y} + \frac{5}{9y} \cdot \frac{4x}{4x} = \frac{3y}{36xy} + \frac{20x}{36xy} = \frac{3y + 20x}{36xy}$
8. $\frac{19}{51y} - \frac{1}{6x} = \frac{19}{51y} \cdot \frac{2x}{2x} - \frac{1}{6x} \cdot \frac{17y}{17y} = \frac{38x}{102xy} - \frac{17y}{102xy} = \frac{38x - 17y}{102xy}$
9. $\frac{7x}{24y} + \frac{2}{15y} = \frac{7x}{24y} \cdot \frac{5}{5} + \frac{2}{15y} \cdot \frac{8}{8} = \frac{35x}{120y} + \frac{16}{120y} = \frac{35x + 16}{120y}$
10. $\frac{3}{14y} + \frac{2}{35x} = \frac{3}{14y} \cdot \frac{5x}{5x} + \frac{2}{35x} \cdot \frac{2y}{2y} = \frac{15x}{70xy} + \frac{4y}{70xy} = \frac{15x + 4y}{70xy}$