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## Addition of Fractions - Problems 1 - Solutions

Dillon Cheffy

$$1) \frac{7}{3} + \frac{9}{2} = \frac{7(\frac{2}{3})}{2} + \frac{9}{2} = \frac{(\frac{14}{3})}{2} + \frac{9}{2} = \frac{4.666...}{2} + \frac{9}{2} = \frac{14}{6} + \frac{9}{2}$$

$$= \frac{14 + 9(\frac{6}{2})}{6} \approx 6.8333$$

$$2) \frac{8}{9} + \frac{7}{6} = \frac{8(\frac{6}{9})}{6} + \frac{7}{6} = \frac{8(\frac{2}{3})}{6} + \frac{7}{6} = \frac{(\frac{16}{3})}{6} + \frac{7}{6} = \frac{5.333...}{6} + \frac{7}{6}$$

$$= \frac{12.333...}{6} \approx 2$$

$$3) \frac{2}{4} + \frac{7}{13} = \frac{2(\frac{13}{4})}{13} + \frac{7}{13} = \frac{2(3.25)}{13} + \frac{7}{13} = \frac{6.5}{13} + \frac{7}{13} = \frac{13.5}{13}$$

$$4) \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

$$5) \frac{10}{3} + \frac{4}{5} = \frac{10(\frac{5}{3})}{5} + \frac{4}{5} = \frac{16.666...}{5} + \frac{4}{5} = \frac{20.666...}{5} \approx 4.1$$

$$6) \frac{28}{30} + \frac{9}{63} = \frac{28(\frac{63}{30})}{63} + \frac{9}{63} = \frac{28(2.1)}{63} + \frac{9}{63} = \frac{58.8}{63} + \frac{9}{63} = \frac{67.8}{63} \approx 1$$

$$7) \frac{2}{4} + \frac{1}{8} = \frac{2(\frac{8}{4})}{8} + \frac{1}{8} = \frac{2(\frac{2}{1})}{8} + \frac{1}{8} = \frac{2(2)}{8} + \frac{1}{8} = \frac{4}{8} + \frac{1}{8} = \frac{5}{8} = 0.625$$

$$8) \frac{12}{19} + \frac{6}{3} = \frac{12(\frac{3}{19})}{3} + \frac{6}{3} = \frac{1.89473}{3} + \frac{6}{3} = \frac{7.89473}{3} \approx 2.6$$

$$9) \frac{10}{40} + \frac{3}{2} = \frac{10(\frac{2}{40})}{2} + \frac{3}{2} = \frac{(\frac{20}{40})}{2} + \frac{3}{2} = \frac{0.5}{2} + \frac{3}{2} = \frac{3.5}{2}$$

$$10) \frac{15}{7} + \frac{2}{3} = \frac{15(\frac{3}{7})}{3} + \frac{2}{3} = \frac{(\frac{45}{7})}{3} + \frac{2}{3} \approx \frac{6.42857}{3} + \frac{2}{3} \approx \frac{8.42857}{3}$$

$$\approx 2.8$$