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Key

Adding Fractions (WITHOUT A CALCULATOR)

$$1) \quad \frac{2}{5} + \frac{9}{10} = \frac{4}{10} + \frac{9}{10} = \frac{13}{10} = 1\frac{3}{10}$$

$$2) \quad \frac{1}{2} + \frac{2}{3} = \frac{3}{6} + \frac{4}{6} = \frac{7}{6} = 1\frac{1}{6}$$

$$3) \quad \frac{5}{10} + \frac{3}{4} = \frac{20}{40} + \frac{30}{40} = \frac{50}{40} = \frac{5}{4} = 1\frac{1}{4}$$

$$4) \quad \frac{1}{4} + \frac{2}{5} = \frac{5}{20} + \frac{8}{20} = \frac{13}{20}$$

$$6) \quad \frac{7}{10} + \frac{2}{4} + \frac{4}{5} = \frac{14}{20} + \frac{10}{20} + \frac{16}{20} = \frac{40}{20} = \frac{2}{1} = 2$$

$$7) \quad \frac{1}{4} + \frac{1}{2} + \frac{4}{10} = \frac{5}{20} + \frac{10}{20} + \frac{8}{20} = \frac{23}{20} = 1\frac{3}{20}$$

$$8) \quad \frac{2}{4} + \frac{1}{2} + \frac{2}{3} = \frac{6}{12} + \frac{6}{12} + \frac{8}{12} = \frac{20}{12} = 1\frac{8}{12} = 1\frac{2}{3}$$

$$9) \quad 2\frac{1}{2} + 7\frac{2}{3} = \frac{5}{2} + \frac{23}{3} = \frac{15}{6} + \frac{46}{6} = \frac{61}{6} = 10\frac{1}{6}$$

$$10) \quad 6\frac{2}{5} + 7\frac{1}{2} = \frac{32}{5} + \frac{15}{2} = \frac{64}{10} + \frac{75}{10} = \frac{139}{10} = 13\frac{9}{10}$$

~~$$5) \quad \frac{2}{4} + \frac{2}{5} + \frac{2}{4} + \frac{5}{2} = \frac{10}{8} + \frac{5}{4} = 1\frac{1}{4}$$~~

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Subtracting Fractions (WITHOUT A CALCULATOR)

$$1) \quad \frac{4}{5} - \frac{2}{3} = \frac{12}{15} - \frac{10}{15} = \frac{2}{15}$$

$$2) \quad \frac{8}{10} - \frac{1}{3} = \frac{24}{30} - \frac{10}{30} = \frac{14}{30} = \frac{7}{15}$$

$$3) \quad \frac{4}{5} - \frac{1}{2} = \frac{8}{10} - \frac{5}{10} = \frac{3}{10}$$

$$4) \quad 8 - \frac{2}{5} = \frac{8}{1} - \frac{2}{5} = \frac{40}{5} - \frac{2}{5} = \frac{38}{5} = 7\frac{3}{5}$$

$$5) \quad 9 - \frac{1}{3} = \frac{9}{1} - \frac{1}{3} = \frac{27}{3} - \frac{1}{3} = \frac{26}{3} = 8\frac{2}{3}$$

$$6) \quad \frac{9}{10} - \frac{1}{5} - \frac{1}{5} = \frac{9}{10} - \frac{2}{10} - \frac{2}{10} = \frac{5}{10} = \frac{1}{2}$$

$$7) \quad \frac{9}{10} - \frac{1}{2} - \frac{2}{10} = \frac{9}{10} - \frac{5}{10} - \frac{2}{10} = \frac{2}{10} = \frac{1}{5}$$

$$8) \quad 8\frac{1}{5} - 3\frac{1}{10} = \frac{41}{5} - \frac{31}{10} = \frac{82}{10} - \frac{31}{10} = \frac{51}{10} = 5\frac{1}{10}$$

$$9) \quad 6\frac{2}{3} - 2\frac{4}{10} = \frac{20}{3} - \frac{24}{10} = \frac{200}{30} - \frac{72}{30} = \frac{128}{30} = 4\frac{8}{30} \\ = 4\frac{4}{15}$$

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Multiplying Fractions (WITHOUT A CALCULATOR)

$$1) \quad \frac{2}{10} \times \frac{1}{2} = \frac{2}{20} = \frac{1}{10}$$

$$2) \quad \frac{1}{2} \times \frac{2}{3} = \frac{2}{6} = \frac{1}{3}$$

$$3) \quad \frac{5}{10} \times \frac{2}{3} = \frac{10}{30} = \frac{1}{3}$$

$$4) \quad \frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$$

$$5) \quad \frac{4}{5} \times \frac{8}{1} = \frac{32}{5} = 6\frac{2}{5}$$

$$6) \quad \frac{2}{5} \times \frac{2}{1} = \frac{4}{5}$$

$$7) \quad 2\frac{1}{2} \times 4\frac{1}{2} = \frac{5}{2} \times \frac{9}{2} = \frac{45}{2}$$

$$8) \quad 2\frac{2}{3} \times 4\frac{2}{5} = \frac{8}{3} \times \frac{22}{5} = \frac{176}{15} = 11\frac{11}{15}$$

$$9) \quad 4\frac{3}{4} \times 3\frac{1}{2} = \frac{19}{4} \times \frac{7}{2} = \frac{133}{8} = 16\frac{5}{8}$$

$$10) \quad 4\frac{4}{5} \times 2\frac{4}{5} = \frac{24}{5} \times \frac{14}{5} = \frac{336}{25} = 13\frac{11}{25}$$

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Dividing Fractions (WITHOUT A CALCULATOR)

$$1) \quad \frac{2}{3} \div \frac{1}{2} = \frac{2}{3} \times \frac{2}{1} = \frac{4}{3} = 1\frac{1}{3}$$

$$2) \quad \frac{7}{10} \div \frac{2}{3} = \frac{7}{10} \times \frac{3}{2} = \frac{21}{20} = 1\frac{1}{20}$$

$$3) \quad \frac{1}{2} \div \frac{2}{3} = \frac{1}{2} \times \frac{3}{2} = \frac{3}{4}$$

$$4) \quad \frac{3}{5} \div \frac{1}{3} = \frac{3}{5} \times \frac{3}{1} = \frac{9}{5} = 1\frac{4}{5}$$

$$5) \quad \frac{2}{4} \div \frac{2}{5} = \frac{2}{4} \times \frac{5}{2} = \frac{10}{8} = 1\frac{2}{8}$$

$$6) \quad 7 \div \frac{1}{3} = \frac{7}{1} \times \frac{3}{1} = \frac{21}{1} = 21$$

$$7) \quad \frac{1}{2} \div 5 = \frac{1}{2} \times \frac{1}{5} = \frac{1}{10}$$

$$8) \quad \frac{2}{3} \div 10 = \frac{2}{3} \times \frac{1}{10} = \frac{2}{30} = \frac{1}{15}$$

$$9) \quad 4\frac{2}{3} \div 4\frac{1}{2} = \frac{14}{3} \div \frac{9}{2} = \frac{14}{3} \times \frac{2}{9} = \frac{28}{27} = 1\frac{1}{27}$$

$$10) \quad 2\frac{1}{3} \div 2\frac{4}{5} = \frac{7}{3} \div \frac{14}{5} = \frac{7}{3} \times \frac{5}{14} = \frac{35}{42} = \frac{5}{6}$$