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$$\text{a. } \frac{4}{5} : \frac{2}{3} - \frac{1}{5} = \frac{4}{5} \cdot \frac{3}{2} - \frac{1}{5} = \frac{2}{5} \cdot \frac{3}{1} - \frac{1}{5} = \frac{6}{5} - \frac{1}{5} = \frac{5}{5} = 1$$

$$\text{b. } \frac{5}{8} \cdot \frac{4}{5} - \frac{1}{3} = \frac{1}{2} \cdot \frac{1}{1} - \frac{1}{3} = \frac{1}{2} - \frac{1}{3} = \frac{3}{6} - \frac{2}{6} = \frac{1}{6}$$

$$\text{c. } \frac{1}{2} + \frac{3}{4} : \frac{2}{5} = \frac{1}{2} + \frac{3}{4} \cdot \frac{5}{2} = \frac{1}{2} + \frac{15}{8} = \frac{4}{8} + \frac{15}{8} = \frac{19}{8} = 2 \frac{3}{8}$$

$$\text{d. } \frac{6}{5} \cdot \left( \frac{2}{3} - \frac{5}{9} \right) = \frac{6}{5} \cdot \left( \frac{6}{9} - \frac{5}{9} \right) = \frac{6}{5} \cdot \frac{1}{9} = \frac{2}{5} \cdot \frac{1}{3} = \frac{2}{15}$$

$$\text{e. } \left( \frac{2}{5} + \frac{1}{3} \right) : \frac{3}{5} = \left( \frac{6}{15} + \frac{5}{15} \right) : \frac{3}{5} = \frac{11}{15} : \frac{3}{5} = \frac{11}{15} \cdot \frac{5}{3} = \frac{11}{3} \cdot \frac{1}{3} = \frac{11}{9} = 1 \frac{2}{9}$$

$$\text{f. } \frac{3}{4} : \left( \frac{4}{5} - \frac{3}{5} \right) = \frac{3}{4} : \frac{1}{5} = \frac{3}{4} \cdot \frac{5}{1} = \frac{15}{4} = 3 \frac{3}{4}$$

$$\text{g. } \left( \frac{3}{4} + \frac{3}{5} \right) \cdot \frac{5}{9} = \left( \frac{15}{20} + \frac{12}{20} \right) \cdot \frac{5}{9} = \frac{27}{20} \cdot \frac{5}{9} = \frac{3}{4} \cdot \frac{1}{1} = \frac{3}{4}$$

$$\text{h. } \frac{1}{3} \cdot \frac{3}{7} + \frac{3}{5} = \frac{1}{1} \cdot \frac{1}{7} + \frac{3}{5} = \frac{1}{7} + \frac{3}{5} = \frac{5}{35} + \frac{21}{35} = \frac{26}{35}$$