Fractions Part 1

Exercise Worksheet 3.1

1. Solve the following:

    i. $\dfrac{2}{18} + \dfrac{10}{16}$

    ii. $\dfrac{3}{10} + \dfrac{3}{4}$

    iii. $\dfrac{6}{19} + \dfrac{16}{18}$

    iv. $\dfrac{4}{12} + \dfrac{4}{15}$

    v. $\dfrac{3}{7} + \dfrac{7}{10}$

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2. Solve the following:

    i. $\dfrac{5}{7} - \dfrac{6}{15}$

    ii. $\dfrac{2}{4} - \dfrac{2}{6}$

    iii. $\dfrac{3}{4} - \dfrac{1}{3}$

    iv. $\dfrac{3}{4} - \dfrac{1}{12}$

    v. $\dfrac{13}{17} - \dfrac{3}{8}$

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3. Solve the following:

i. $\dfrac{3}{6} + \dfrac{1}{3} + \dfrac{4}{4}$

ii. $\dfrac{3}{9} + \dfrac{2}{9} + \dfrac{2}{6}$

iii. $\dfrac{5}{7} + \dfrac{1}{9} + \dfrac{8}{10}$

iv. $\dfrac{1}{2} + \dfrac{1}{4} + \dfrac{3}{3}$

v. $\dfrac{1}{3} + \dfrac{1}{5} + \dfrac{8}{9}$

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4. Solve the following:

    i. $\dfrac{8}{9} - \dfrac{1}{9} - \dfrac{2}{4}$

    ii. $\dfrac{5}{6} - \dfrac{1}{5} - \dfrac{3}{8}$

    iii. $\dfrac{6}{7} - \dfrac{1}{9} - \dfrac{2}{6}$

    iv. $\dfrac{5}{6} - \dfrac{3}{7} - \dfrac{1}{8}$

    v. $\dfrac{5}{6} - \dfrac{1}{3} - \dfrac{1}{3}$

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5. Solve the following:

    i. $\dfrac{6}{7} + \dfrac{2}{10} - \dfrac{1}{7}$

    ii. $\dfrac{3}{4} - \dfrac{3}{7} + \dfrac{4}{8}$

    iii. $\dfrac{4}{5} + \dfrac{2}{5} - \dfrac{4}{10}$

    iv. $\dfrac{2}{3} - \dfrac{1}{3} + \dfrac{3}{6}$

    v. $\dfrac{5}{6} + \dfrac{2}{7} - \dfrac{1}{3}$

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6. Verify:

    i. $\dfrac{7}{8} + \dfrac{6}{11} = \dfrac{6}{11} + \dfrac{7}{8}$

    ii. $\dfrac{2}{4} + \dfrac{9}{9} = \dfrac{9}{9} + \dfrac{2}{4}$

    iii. $\dfrac{2}{4} + \dfrac{13}{19} = \dfrac{13}{19} + \dfrac{2}{4}$

    iv. $\dfrac{2}{17} + \dfrac{14}{15} = \dfrac{14}{15} + \dfrac{2}{17}$

    v. $\dfrac{2}{9} + \dfrac{17}{19} = \dfrac{17}{19} + \dfrac{2}{9}$

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7. Verify:

i. $\left[\dfrac{7}{12} + \dfrac{1}{7} \right] + \dfrac{2}{16} = \dfrac{7}{12} + \left[\dfrac{1}{7} + \dfrac{2}{16} \right]$

ii. $\left[\dfrac{5}{9} + \dfrac{3}{7} \right] + \dfrac{7}{7} = \dfrac{5}{9} + \left[\dfrac{3}{7} + \dfrac{7}{7} \right]$

iii. $\left[\dfrac{9}{20} + \dfrac{1}{7} \right] + \dfrac{19}{19} = \dfrac{9}{20} + \left[\dfrac{1}{7} + \dfrac{19}{19} \right]$

iv. $\left[\dfrac{11}{13} + \dfrac{6}{17} \right] + \dfrac{5}{5} = \dfrac{11}{13} + \left[\dfrac{6}{17} + \dfrac{5}{5} \right]$

v. $\left[\dfrac{9}{16} + \dfrac{1}{3} \right] + \dfrac{1}{5} = \dfrac{9}{16} + \left[\dfrac{1}{3} + \dfrac{1}{5} \right]$