Fractions 8

Subtracting Mixed Numbers

If the top FRACTION is less than the bottom fraction, borrow one from the top whole number and add it to the top fraction.

1. $7\frac{1}{4} + \frac{4}{4} = \frac{5}{4} \cdot \frac{2}{2} = \frac{10}{8}$

$$- \; 5\frac{7}{8} \quad \frac{10}{8} - \frac{7}{8} = \frac{3}{8}$$

$2\frac{3}{8}$

2. $2\frac{1}{5} + \frac{5}{5} = \frac{6}{5} - \frac{4}{7}$ (42, 20)

$$- \; 2\frac{4}{7} \quad \frac{22}{35}$$

$\frac{22}{35}$

3. $\frac{5}{5}$

$$- \; 3\frac{4}{5}$$

$2\frac{1}{5}$

4. $8\frac{1}{4} + \frac{4}{4} = \frac{5}{4} - \frac{8}{9}$ (45, 32)

$$- \; 5\frac{8}{9} \quad \frac{13}{36}$$

$3\frac{13}{36}$

5. $6\frac{4}{7} + \frac{7}{7} = \frac{11}{7} - \frac{4}{5}$ (55, 28)

$$- \; 3\frac{4}{5} \quad \frac{27}{35}$$

$3\frac{27}{35}$

6. $7\frac{7}{13} + \frac{13}{13} = \frac{20}{13} - \frac{7}{12}$ (240 − 91)

$$- \; 7\frac{7}{12} \quad \frac{149}{156}$$

$\frac{149}{156}$

7. $8\frac{1}{4} + \frac{4}{4} = \frac{5}{4} - \frac{5}{8}$ $\frac{20}{32}$ (40, 20)

$$- \; \frac{5}{8} \quad = \frac{20 \div 4}{32 \div 4} = \frac{5}{8}$$

$8\frac{5}{8}$

8. $5\frac{7}{7}$

$$- \; 4\frac{5}{7}$$

$1\frac{2}{7}$

9. $5\frac{6}{7} - \frac{1}{8} = \frac{41}{56}$ (48, 7)

$$- \; 3\frac{1}{8}$$

$2\frac{41}{56}$

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Fractions

Homework

Subtracting Mixed Numbers

If the top FRACTION is less than the bottom FRACTION, borrow one from the top whole number and add it to the top fraction.

1. $6\frac{2}{5} + \frac{5}{5} = \frac{7}{5} - \frac{7}{8}$ (56 − 35)

$$- \; 2\frac{7}{8} \quad \frac{21}{40}$$

$4\frac{21}{40}$

2. $8\frac{7}{11} - \frac{6}{10}$ (70, 66)

$$- \; 4\frac{6}{10} \quad \frac{4 \div 2}{110 \div 2} = \frac{2}{55}$$

$4\frac{2}{55}$

3. $7\frac{1}{6} + \frac{6}{6} = \frac{7}{6} - \frac{3}{4}$ (28, 18) $\frac{10}{24} = \frac{5}{12}$

$$- \; 6\frac{3}{4}$$

$1\frac{5}{12}$

4. $11\frac{6}{7} - \frac{2}{3}$ (18, 14) $\frac{4}{21}$

$$- \; 9\frac{2}{3}$$

$2\frac{4}{21}$

5. $9\frac{8}{9} - \frac{5}{12}$ (96, 45)

$$- \; 4\frac{5}{12} \quad \frac{51 \div 3}{108 \div 3} = \frac{17}{36}$$

$5\frac{17}{36}$

6. $\cancel{12}\,11\frac{13}{13}$

$$- \; 1\frac{3}{13}$$

$10\frac{10}{13}$

7. $\cancel{13}\,12\frac{1}{9} + \frac{9}{9} = \frac{10}{9} - \frac{8}{9} = \frac{2}{9}$

$$- \; 5\frac{8}{9}$$

$7\frac{2}{9}$

8. $9\frac{5}{8} - \frac{6}{13}$ (65, 48)

$$- \; 2\frac{6}{13}$$

$7\frac{17}{104}$

9. $\cancel{11}\,10\frac{5}{7} + \frac{7}{7} = \frac{12}{7} - \frac{8}{11}$ (132, 56)

$$- \; 4\frac{8}{11} \quad \frac{76}{77}$$

$6\frac{76}{77}$

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