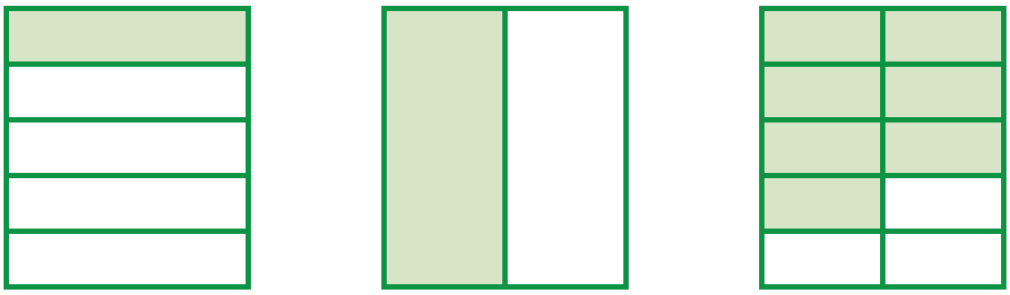
5th Grade Fractions



$$\frac{1}{5} + \frac{1}{2} = \frac{7}{10}$$

Adding Unlike Fractions

$$\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$$

Subtracting Unlike Fractions

$$\frac{a}{b} - \frac{c}{d} = \frac{ad - bc}{bd}$$

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Workbook I

Adding Proper Fractions

1) $\frac{3}{8} + \frac{1}{4} =$ ☐

2) $\frac{2}{3} + \frac{8}{9} =$ ☐

3) $\frac{5}{6} + \frac{7}{12} =$ ☐

4) $\frac{4}{10} + \frac{3}{5} =$ ☐

5) $\frac{1}{2} + \frac{3}{4} =$ ☐

6) $\frac{2}{3} + \frac{1}{2} =$ ☐

7) $\frac{7}{11} + \frac{2}{5} =$ ☐

8) $\frac{1}{4} + \frac{4}{7} =$ ☐

9) $\frac{2}{3} + \frac{2}{6} =$ ☐

10) $\frac{3}{5} + \frac{1}{2} =$ ☐

11) $\frac{1}{4} + \frac{11}{12} =$ ☐

12) $\frac{3}{4} + \frac{5}{6} =$ ☐

13) $\frac{4}{5} + \frac{2}{3} =$ ☐

14) $\frac{1}{2} + \frac{3}{8} =$ ☐

Adding Improper Fractions

1) $\frac{5}{2} + \frac{7}{4} =$ ☐

2) $\frac{4}{3} + \frac{6}{5} =$ ☐

3) $\frac{8}{6} + \frac{5}{3} =$ ☐

4) $\frac{8}{7} + \frac{7}{2} =$ ☐

5) $\frac{9}{8} + \frac{11}{10} =$ ☐

6) $\frac{7}{5} + \frac{9}{4} =$ ☐

7) $\frac{10}{7} + \frac{3}{2} =$ ☐

8) $\frac{4}{3} + \frac{11}{6} =$ ☐

9) $\frac{6}{5} + \frac{5}{3} =$ ☐

10) $\frac{5}{4} + \frac{10}{9} =$ ☐

11) $\frac{11}{4} + \frac{10}{8} =$ ☐

12) $\frac{9}{2} + \frac{7}{6} =$ ☐

13) $\frac{8}{7} + \frac{9}{5} =$ ☐

14) $\frac{5}{3} + \frac{5}{2} =$ ☐

Adding Mixed Numbers

1) $6\frac{5}{6} + 8\frac{7}{9}$

2) $9\frac{1}{15} + 1\frac{2}{5}$

3) $5\frac{6}{7} + 4\frac{10}{14}$

4) $1\frac{1}{3} + 2\frac{1}{2}$

5) $7\frac{6}{8} + 5\frac{1}{4}$

6) $8\frac{2}{9} + 5\frac{3}{7}$

7) $9\frac{1}{3} + 7\frac{4}{7}$

8) $6\frac{2}{6} + 5\frac{1}{2}$

9) $2\frac{1}{4} + 1\frac{5}{7}$

10) $1\frac{3}{5} + 1\frac{8}{10}$

11) $5\frac{7}{20} + 2\frac{1}{2}$

12) $4\frac{3}{4} + 3\frac{9}{16}$

13) $2\frac{2}{9} + 2\frac{5}{18}$

14) $7\frac{3}{4} + 3\frac{3}{16}$

15) $4\frac{2}{3} + 5\frac{4}{12}$

16) $6\frac{1}{2} + 2\frac{2}{14}$

Adding Unlike Fractions

1) $1\frac{2}{5} + 7\frac{6}{20} =$

2) $\frac{9}{14} + \frac{3}{7} =$

3) $\frac{17}{16} + \frac{9}{8} =$

4) $5\frac{5}{6} + \frac{8}{12} =$

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

6) $\frac{4}{6} + \frac{11}{2} =$

7) $2\frac{2}{10} + \frac{1}{2} =$

8) $\frac{2}{3} + \frac{13}{18} =$

9) $5\frac{6}{9} + 2\frac{2}{6} =$

10) $\frac{19}{14} + 1\frac{5}{7} =$

11) $\frac{4}{15} + \frac{17}{10} =$

12) $\frac{1}{2} + \frac{9}{18} =$

13) $9\frac{3}{5} + \frac{2}{3} =$

14) $1\frac{2}{12} + 1\frac{1}{4} =$

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Subtracting Fractions

1) $4 - \frac{19}{12} =$ ☐

2) $8 - 2\frac{11}{15} =$ ☐

3) $3 - 1\frac{8}{17} =$ ☐

4) $5 - \frac{13}{18} =$ ☐

5) $2 - \frac{4}{7} =$ ☐

6) $4 - \frac{12}{5} =$ ☐

7) $9 - 4\frac{19}{20} =$ ☐

8) $6 - \frac{9}{14} =$ ☐

9) $7 - \frac{9}{6} =$ ☐

10) $3 - 2\frac{15}{16} =$ ☐

11) $5 - \frac{1}{3} =$ ☐

12) $9 - \frac{23}{10} =$ ☐

13) $6 - 2\frac{10}{13} =$ ☐

14) $7 - \frac{6}{11} =$ ☐

Missing Fractions

1) $\square - \frac{18}{27} = \frac{1}{9}$

2) $\square - \frac{20}{16} = 8\frac{5}{8}$

3) $7\frac{11}{12} - \square = 7\frac{1}{6}$

4) $\frac{32}{26} - \square = \frac{2}{13}$

5) $\square - \frac{14}{22} = 1$

6) $\square - 1\frac{2}{8} = 2\frac{1}{4}$

7) $\frac{5}{6} - \square = \frac{1}{2}$

8) $3\frac{4}{5} - \square = 3\frac{1}{15}$

9) $\square - \frac{32}{30} = 4\frac{8}{15}$

10) $\square - \frac{12}{4} = \frac{8}{5}$

11) $\square - \frac{7}{21} = \frac{4}{3}$

12) $9\frac{2}{3} - \square = 8\frac{1}{6}$

13) $4\frac{5}{6} - \square = 2\frac{1}{2}$

14) $\square - \frac{9}{10} = \frac{11}{30}$

Solve

Find the value of the variable in each problem.

1) $\frac{m}{3} - \frac{8}{9} = \frac{7}{9}$ $m =$ ☐

2) $4\frac{10}{12} - \frac{1}{6} = \frac{14}{p}$ $p =$ ☐

3) $\frac{7}{4} - \frac{1}{2} = \frac{a}{4}$ $a =$ ☐

4) $2\frac{7}{8} - 1\frac{x}{16} = \frac{5}{4}$ $x =$ ☐

5) $\frac{29}{20} - \frac{3}{10} = 1\frac{3}{d}$ $d =$ ☐

6) $\frac{z}{15} - \frac{4}{5} = \frac{2}{15}$ $z =$ ☐

7) $6\frac{5}{n} - 4\frac{2}{3} = 2\frac{1}{6}$ $n =$ ☐

8) $\frac{11}{9} - \frac{17}{r} = \frac{5}{18}$ $r =$ ☐

9) $\frac{17}{8} - 1\frac{1}{2} = \frac{y}{8}$ $y =$ ☐

10) $\frac{11}{q} - \frac{3}{4} = \frac{1}{6}$ $q =$ ☐

Subtracting Unlike Fractions

1) Brooke watched a YouTube video that featured a Filipino chicken recipe. She bought $5\frac{3}{4}$ pounds of chicken from the local store. If the recipe called for $2\frac{1}{2}$ pounds of chicken, how many pounds of chicken remain unused?

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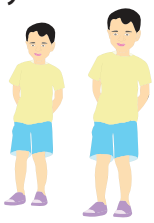
2) Noah stood $55\frac{2}{3}$ inches tall on his tenth birthday. If he stood $58\frac{1}{2}$ inches on his eleventh birthday, how much taller has Noah grown over the past year?



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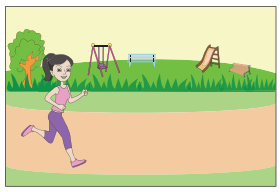
3) Macy jogged and walked a total of $\frac{37}{9}$ miles in Central Park today. If she jogged a distance of $\frac{8}{3}$ miles, how many miles did Macy walk?



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4) Dave and Sam take a tour of a chocolate factory in Hershey, PA. Dave bought $\frac{11}{20}$ pounds of chocolate and Sam purchased $\frac{7}{10}$ pounds of chocolates. How many more pounds of chocolate did Sam purchase than Dave?

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5) Amelia took an online practice test and attempted two-thirds of the total number of questions. If one-sixth of the questions attempted were incorrect, what fraction of questions did she get right?

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