

Subtraction of Whole Numbers

Subtract.

$$\begin{array}{r} 1. \quad 483 \\ -155 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 725 \\ -386 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 834 \\ -428 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 500 \\ -337 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 5,293 \\ -2,418 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 5,953 \\ -3,584 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 6,000 \\ -4,398 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 7,312 \\ - \quad 46 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 79,265 \\ -33,517 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 25,318 \\ - \quad 577 \\ \hline \end{array}$$

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Division of Whole Numbers

Divide.

1. $43 \overline{)215}$

2. $18 \overline{)468}$

3. $53 \overline{)81,196}$

4. $47 \overline{)273,869}$

5. $50 \overline{)28,050}$

6. $138 \overline{)966}$

7. $31 \overline{)6200}$

8. $854 \overline{)777,994}$

9. $806 \overline{)41,912}$

10. $702 \overline{)426,816}$

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Rounding Decimals

Round to the nearest tenth.

1. 0.75 2. 9.304 3. 23.97

Round to the nearest hundredth.

4. 9.573 5. 2.8193 6. 17.555

Round to the nearest thousandth.

7. 1.8672 8. 8.0455 9. 1.0839

Round to the nearest ten-thousandth.

10. 0.68436 11. 198.75643 12. 5.60025

Round to the nearest hundred-thousandth.

13. 0.018735 14. 523.907683 15. 7.462896

Round to the nearest cent.

16. \$.894 17. \$6.676 18. \$643.312

Round to the nearest dollar.

19. \$56.38 20. \$19.55 21. 5.60025

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Addition of Decimals

Add.

$$\begin{array}{r} .14 \\ 1. \quad .15 \\ \hline +.08 \end{array}$$

$$\begin{array}{r} 3.4 \\ 2. \quad 5.9 \\ \hline +.08 \end{array}$$

$$\begin{array}{r} 5.08 \\ 3. \quad 3.07 \\ 8.04 \\ \hline +1.06 \end{array}$$

$$\begin{array}{r} 3.68 \\ 4. \quad 8.37 \\ 9.2 \\ \hline +7 \end{array}$$

$$\begin{array}{r} 2.45 \\ 5. \quad .8 \\ 1.9 \\ \hline +.76 \end{array}$$

$$\begin{array}{r} 3.724 \\ 6. \quad 8.109 \\ 5.34 \\ \hline +7.2 \end{array}$$

$$7. \quad 4.3 + 0.76$$

$$8. \quad 5.32 + .891 + 6$$

$$9. \quad 3.88 + .562 + 7.1$$

$$10. \quad .682 + 4.3 + .5923 + 72.1$$

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Subtraction of Decimals

Subtract.

$$\begin{array}{r} 1. \quad .94 \\ - .59 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad .47 \\ - .32 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad .73 \\ - .68 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 3.45 \\ - 1.89 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad .582 \\ - .299 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 5.35 \\ - 1.89 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 7.001 \\ - 1.7905 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 8.45 \\ - .49 \\ \hline \end{array}$$

$$9. \quad 9 - 2.345$$

$$10. \quad 56.4 - 9.678$$

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Multiplication of Decimals

Multiply.

$$\begin{array}{r} 1. \quad .32 \\ \times .03 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad .47 \\ \times 3.2 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad .81 \\ \times 46 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 3.45 \\ \times .9 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad .582 \\ \times .19 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 5.16 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad .008 \\ \times 32.4 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 71.37 \\ \times .13 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad .24 \\ \times .03 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 15 \\ \times .0008 \\ \hline \end{array}$$

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Division of Decimals

Divide the decimals.

1. $0.5 \overline{)219.5}$

2. $0.3 \overline{)61.2}$

3. $0.7 \overline{)15.05}$

4. $0.3 \overline{).0072}$

5. $2.3 \overline{)13.34}$

6. $9.7 \overline{)390.91}$

7. $0.6 \overline{).0036}$

8. $0.4 \overline{)3}$

9. $6.8 \overline{)17}$

10. $7.9 \overline{)48.98}$

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Fractions in Lowest Terms

Express the following fractions in lowest terms.

1. $\frac{9}{15}$ 2. $\frac{5}{20}$ 3. $\frac{9}{63}$ 4. $\frac{26}{39}$

5. $\frac{11}{55}$ 6. $\frac{18}{72}$ 7. $\frac{16}{30}$ 8. $\frac{27}{54}$

9. $\frac{39}{91}$ 10. $\frac{55}{70}$ 11. $\frac{46}{115}$ 12. $\frac{57}{87}$

13. $\frac{75}{105}$ 14. $\frac{65}{104}$ 15. $\frac{30}{120}$ 16. $\frac{150}{250}$

17. $\frac{1000}{1400}$ 18. $\frac{800}{4800}$ 19. $\frac{700}{925}$ 20. $\frac{89}{445}$

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Rewriting Improper Fractions

Rewrite each of the following improper fractions as a whole number or a mixed number in lowest terms.

1. $\frac{24}{15}$ 2. $\frac{27}{3}$ 3. $\frac{54}{21}$ 4. $\frac{14}{10}$

5. $\frac{20}{8}$ 6. $\frac{36}{14}$ 7. $\frac{15}{12}$ 8. $\frac{80}{60}$

9. $\frac{26}{10}$ 10. $\frac{18}{8}$ 11. $\frac{115}{46}$ 12. $\frac{87}{58}$

13. $\frac{100}{48}$ 14. $\frac{104}{56}$ 15. $\frac{140}{20}$ 16. $\frac{132}{11}$

17. $\frac{1400}{1000}$ 18. $\frac{6000}{4800}$ 19. $\frac{2600}{600}$ 20. $\frac{1430}{130}$

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Simplifying Mixed Numbers

Rewrite each of the following in simplest form.

1. $6\frac{3}{3}$ 2. $8\frac{9}{9}$ 3. $11\frac{17}{17}$ 4. $4\frac{36}{9}$

5. $5\frac{8}{4}$ 6. $10\frac{25}{5}$ 7. $8\frac{10}{12}$ 8. $3\frac{6}{24}$

9. $7\frac{27}{45}$ 10. $5\frac{8}{5}$ 11. $42\frac{25}{11}$ 12. $17\frac{14}{6}$

13. $2\frac{80}{48}$ 14. $12\frac{51}{17}$ 15. $15\frac{142}{21}$ 16. $18\frac{32}{15}$

17. $3\frac{140}{100}$ 18. $5\frac{60}{48}$ 19. $7\frac{26}{6}$ 20. $4\frac{144}{12}$

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Expressing Fractions in Higher Terms

Express the following fractions as equivalent fractions having denominators as specified.

1. $\frac{1}{2} = \frac{?}{10}$

2. $\frac{1}{3} = \frac{?}{21}$

3. $\frac{1}{5} = \frac{?}{25}$

4. $\frac{1}{16} = \frac{?}{48}$

5. $\frac{1}{12} = \frac{?}{60}$

6. $\frac{1}{15} = \frac{?}{75}$

7. $\frac{4}{7} = \frac{?}{28}$

8. $\frac{5}{8} = \frac{?}{48}$

9. $\frac{2}{9} = \frac{?}{72}$

10. $\frac{13}{16} = \frac{?}{64}$

11. $\frac{7}{45} = \frac{?}{90}$

12. $\frac{12}{25} = \frac{?}{50}$

13. $\frac{3}{10} = \frac{?}{100}$

14. $\frac{3}{5} = \frac{?}{100}$

15. $\frac{17}{20} = \frac{?}{100}$

16. $\frac{29}{50} = \frac{?}{100}$

17. $\frac{3}{20} = \frac{?}{100}$

18. $\frac{21}{25} = \frac{?}{100}$

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Addition of Fractions and Mixed Numbers

Add. All answers should be in lowest terms.

$$1. \quad \begin{array}{r} 2\frac{7}{8} \\ + 3\frac{3}{4} \\ \hline \end{array}$$

$$2. \quad \begin{array}{r} 7 \\ + 2\frac{2}{3} \\ \hline \end{array}$$

$$3. \quad \begin{array}{r} 11\frac{2}{5} \\ + 6\frac{1}{2} \\ \hline \end{array}$$

$$4. \quad \begin{array}{r} 23\frac{3}{16} \\ + 18\frac{5}{8} \\ \hline \end{array}$$

$$5. \quad \begin{array}{r} 8\frac{3}{5} \\ + 12\frac{5}{6} \\ \hline \end{array}$$

$$6. \quad \begin{array}{r} 14\frac{5}{6} \\ + 35\frac{9}{14} \\ \hline \end{array}$$

$$7. \quad \begin{array}{r} \frac{7}{9} \\ + 7\frac{5}{12} \\ \hline \end{array}$$

$$8. \quad \begin{array}{r} 9\frac{7}{9} \\ + 5\frac{3}{4} \\ \hline \end{array}$$

$$9. \quad \begin{array}{r} 2\frac{2}{3} \\ 3\frac{5}{6} \\ + 2\frac{1}{2} \\ \hline \end{array}$$

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Subtraction of Fractions and Mixed Numbers

Subtract. All answers should be in lowest terms.

$$1. \quad \begin{array}{r} 3\frac{7}{12} \\ - 1\frac{3}{4} \\ \hline \end{array}$$

$$2. \quad \begin{array}{r} 7 \\ - 2\frac{2}{3} \\ \hline \end{array}$$

$$3. \quad \begin{array}{r} 11\frac{3}{10} \\ - 6\frac{2}{9} \\ \hline \end{array}$$

$$4. \quad \begin{array}{r} 14\frac{1}{9} \\ - 8\frac{2}{3} \\ \hline \end{array}$$

$$5. \quad \begin{array}{r} 42\frac{16}{21} \\ - 38\frac{5}{7} \\ \hline \end{array}$$

$$6. \quad \begin{array}{r} 13 \\ - 8\frac{17}{20} \\ \hline \end{array}$$

$$7. \quad \begin{array}{r} 7 \\ - 3\frac{5}{12} \\ \hline \end{array}$$

$$8. \quad \begin{array}{r} 8\frac{2}{5} \\ - 3\frac{5}{8} \\ \hline \end{array}$$

$$9. \quad \begin{array}{r} 15\frac{1}{6} \\ - 14\frac{3}{8} \\ \hline \end{array}$$

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Writing Mixed Numbers as Improper Fractions

Write the following mixed numbers as improper fractions.

1. $1\frac{8}{15}$

2. $1\frac{16}{25}$

3. $1\frac{29}{30}$

4. $1\frac{11}{21}$

5. $3\frac{1}{5}$

6. $4\frac{1}{3}$

7. $8\frac{1}{9}$

8. $21\frac{1}{2}$

9. $32\frac{1}{6}$

10. $5\frac{1}{20}$

11. $11\frac{1}{50}$

12. $8\frac{1}{12}$

13. $8\frac{2}{3}$

14. $6\frac{7}{8}$

15. $12\frac{3}{7}$

16. $8\frac{21}{25}$

17. $6\frac{7}{10}$

18. $24\frac{2}{5}$

19. $10\frac{9}{16}$

20. $14\frac{2}{9}$

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Multiplication of Fractions and Mixed Numbers

Multiply. All answers should be in lowest terms. Express as a mixed number if necessary.

1. $\frac{12}{5} \times \frac{10}{7}$

2. $15 \times \frac{8}{15}$

3. $\frac{56}{14} \times \frac{7}{8}$

4. $\frac{3}{10} \times \frac{2}{15}$

5. $2\frac{5}{6} \times 1\frac{4}{9}$

6. $\frac{11}{12} \times 4\frac{4}{11}$

7. $5\frac{1}{2} \times 8\frac{1}{3}$

8. $7\frac{1}{2} \times 10\frac{2}{5}$

9. $1\frac{3}{4} \times 2\frac{5}{12}$

10. $\frac{5}{12} \times \frac{8}{9} \times \frac{3}{10}$

11. $12\frac{3}{8} \times 1\frac{5}{11} \times 1\frac{3}{5}$

12. $\frac{21}{24} \times \frac{16}{49} \times \frac{8}{9}$

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Division of Fractions and Mixed Numbers

Divide. All answers should be in lowest terms. Express as a mixed number if necessary.

1. $\frac{2}{5} \div \frac{26}{15}$

2. $\frac{14}{30} \div \frac{8}{15}$

3. $\frac{54}{14} \div \frac{9}{28}$

4. $1\frac{7}{9} \div \frac{56}{72}$

5. $2\frac{5}{6} \div 1\frac{9}{12}$

6. $6\frac{2}{3} \div 3\frac{1}{8}$

7. $5\frac{1}{2} \div 3\frac{1}{8}$

8. $5\frac{5}{6} \div 2\frac{1}{3}$

9. $8\frac{3}{4} \div 2\frac{2}{5}$

10. $\frac{5}{12} \div \frac{9}{8} \div \frac{10}{3}$

11. $\frac{11}{8} \div \frac{11}{16} \div \frac{9}{2}$

12. $\frac{21}{24} \div \frac{49}{56} \div \frac{8}{9}$

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Writing Fractions and Mixed Numbers as Percents

Write each of the following fractions or mixed numbers as a percent.

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

2. $\frac{27}{50}$

3. $\frac{49}{56}$

4. $\frac{6}{21}$

5. $\frac{10}{25}$

6. $\frac{19}{20}$

7. $\frac{56}{72}$

8. $1\frac{1}{4}$

9. $1\frac{4}{5}$

10. $\frac{42}{24}$

11. $\frac{88}{64}$

12. $\frac{15}{4}$

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