



Table of Contents



Introduction	3
Practice 1: Fraction Values	4
Practice 2: Working with Equivalent Fractions	5
Practice 3: Reducing Fractions to Lowest Terms/Greatest Common Factor (GCF)	6
Practice 4: Improper Fractions and Mixed Numbers	7
Practice 5: Comparing Fractions by Computing Common Denominators	8
Practice 6: Comparing Fractions and Mixed Numbers	9
Practice 7: Ordering Fractions and Mixed Numbers	10
Practice 8: Determining the Lowest Common Denominator/Least Common Multiple	11
Practice 9: Adding and Subtracting Fractions	12
Practice 10: Adding and Subtracting Mixed Numbers	13
Practice 11: Adding and Subtracting Mixed Numbers with Regrouping	14
Practice 12: Multiplying Fractions Times a Whole Number	15
Practice 13: Multiplying Fractions by Fractions/Cross Canceling	16
Practice 14: Dividing Fractions	17
Practice 15: Estimating Answers with Fractions and Mixed Numbers	18
Practice 16: Converting Fractions to Decimals	19
Practice 17: Expressing Decimal Values as Fractions	20
Practice 18: Reading Decimals	21
Practice 19: Comparing Decimals	22
Practice 20: Ordering Decimals	23
Practice 21: Adding Decimals	24
Practice 22: Subtracting Decimals	25
Practice 23: Multiplying Decimals by 10, 100, and 1,000	26
Practice 24: Multiplying Decimals by Decimals	27
Practice 25: Dividing Decimals by 10, 100, and 1,000	28
Practice 26: Dividing Decimals by Whole Numbers	29
Practice 27: Dividing Decimals by Decimals	30
Practice 28: Terminating, Repeating, and Non-repeating Decimals	31
Practice 29: Understanding Percents	32
Practice 30: Converting Decimals to Percents	33
Practice 31: Converting Fractions to Percents	34
Practice 32: Converting Percents to Fractions	35
Practice 33: Computing Percents	36
Practice 34: Computing Discounts	37
Practice 35: Comparing Sales Prices	38
Practice 36: Computing Simple Interest	39
Test Practice 1	40
Test Practice 2	41
Test Practice 3	42
Test Practice 4	43
Test Practice 5	44
Test Practice 6	45
Answer Sheet	46
Answer Key	47

Practice 14



Reminder

To divide two fractions: $\frac{3}{4} \div \frac{1}{4} =$

1. Get the reciprocal of the second fraction by inverting the fraction (turning it upside down). $\frac{1}{4}$ becomes $\frac{4}{1}$.
2. Change the sign to multiplication (x).
3. Multiply the fractions.
4. Reduce the answer to lowest terms.

$$\frac{3}{4} \div \frac{1}{4} =$$

$$\frac{3}{4} \times \frac{4}{1} = \frac{12}{4} = 3$$

Directions: Divide these fractions. Reduce to lowest terms. The first two are done for you.

1. $\frac{2}{3} \div \frac{1}{2} =$

$$\frac{2}{3} \times \frac{2}{1} = \frac{4}{3} = 1 \frac{1}{3}$$

2. $\frac{3}{4} \div \frac{1}{3} =$

$$\frac{3}{4} \times \frac{3}{1} = \frac{9}{4} = 2 \frac{1}{4}$$

3. $\frac{4}{5} \div \frac{2}{3} =$

4. $\frac{4}{5} \div \frac{1}{5} =$

5. $\frac{3}{7} \div \frac{1}{7} =$

6. $\frac{2}{5} \div \frac{1}{2} =$

7. $\frac{3}{6} \div \frac{1}{2} =$

8. $\frac{2}{8} \div \frac{1}{4} =$

9. $\frac{2}{3} \div \frac{4}{6} =$

10. $\frac{1}{4} \div \frac{4}{1} =$

11. $\frac{2}{7} \div \frac{7}{2} =$

12. $\frac{5}{9} \div \frac{9}{5} =$

13. $\frac{6}{4} \div \frac{1}{3} =$

14. $\frac{5}{8} \div \frac{8}{2} =$

15. $\frac{7}{6} \div \frac{3}{2} =$

16. $\frac{8}{12} \div \frac{1}{2} =$

17. $\frac{8}{12} \div \frac{2}{1} =$

18. $\frac{4}{10} \div \frac{4}{2} =$

19. $\frac{6}{3} \div \frac{3}{1} =$

20. $\frac{14}{20} \div \frac{1}{2} =$

21. $\frac{6}{14} \div \frac{3}{7} =$

22. $\frac{4}{6} \div \frac{2}{4} =$

23. $\frac{3}{4} \div \frac{1}{8} =$

24. $\frac{3}{15} \div \frac{1}{3} =$

25. $\frac{1}{2} \div \frac{1}{3} =$

26. $\frac{1}{4} \div \frac{1}{2} =$

27. $\frac{1}{8} \div \frac{1}{3} =$

28. $\frac{4}{9} \div \frac{4}{8} =$

Practice 22



Reminder

To subtract decimals:

1. Use the ladder form.
2. Line up the decimals.
3. Use placeholder zeroes (if needed).
4. Subtract the numbers (borrow/regroup where necessary).
5. Line up the decimal in your answer with the decimals from the problem.

$$8.1 - 6.513 =$$

$$\begin{array}{r} 8.\overset{7}{1}\overset{8}{0}\overset{8}{0} \leftarrow \text{(placeholder zeroes)} \\ - 6.513 \\ \hline 1.587 \leftarrow \text{(decimal stays three places to the left)} \end{array}$$

Directions: Use the reminder above to correctly subtract these decimals. The first two are done for you. Use a separate sheet of paper to complete #13–27.

$$\begin{array}{r} 1. \quad 6.100 \\ - 1.834 \\ \hline 4.266 \end{array}$$

$$\begin{array}{r} 2. \quad 0.900 \\ - 0.813 \\ \hline 0.087 \end{array}$$

$$\begin{array}{r} 3. \quad 8.1 \\ - 3.66 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 17.03 \\ - 5.762 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 8.013 \\ - 1.3 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 9.4 \\ - 4.002 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 0.1 \\ - 0.011 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 9 \\ - 5.713 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 4.113 \\ - 2.332 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 3.022 \\ - 1.123 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 5.019 \\ - 1.238 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 8 \\ - 7.188 \\ \hline \end{array}$$

$$13. \quad 2.1 - 1.08 =$$

$$14. \quad 6 - 4.77 =$$

$$15. \quad 3.01 - 2.897 =$$

$$16. \quad 2 - 0.003 =$$

$$17. \quad 9 - 2.008 =$$

$$18. \quad 42 - 13.078 =$$

$$19. \quad 2.011 - 0.14 =$$

$$20. \quad 20 - 13.002 =$$

$$21. \quad 6.01 - 3.041 =$$

$$22. \quad 7 - 2.421 =$$

$$23. \quad 34.2 - 5.022 =$$

$$24. \quad 13 - 11.91 =$$

$$25. \quad 2 - 0.68 =$$

$$26. \quad 4.1 - 1.071 =$$

$$27. \quad 14 - 1.013 =$$

Practice 30

Reminder

Decimals in the hundredths places are converted to percents by removing the decimal point and adding the percent sign. Drop unnecessary zeroes.

$$0.25 = 25\% \qquad 0.03 = 3\% \qquad 0.12 = 12\%$$

Decimals in the thousandths places are converted to percents by moving the decimal point two places to the right and adding the percent sign. Drop unnecessary zeroes.

$$0.025 = 2.5\% \qquad 0.003 = .3\% \qquad 0.095 = 9.5\%$$

NOTE: Some zero placeholders must be added, as in these examples:

$$6.9 = 690\% \qquad 10.4 = 1040\% \qquad 9.5 = 950\%$$

Directions: Convert the following decimals into percents. The first two are done for you.

1. $0.35 = \underline{35\%}$ 2. $4.02 = \underline{402\%}$ 3. $0.04 = \underline{\hspace{2cm}}$

4. $0.02 = \underline{\hspace{2cm}}$ 5. $0.91 = \underline{\hspace{2cm}}$ 6. $1.07 = \underline{\hspace{2cm}}$

7. $1.09 = \underline{\hspace{2cm}}$ 8. $0.08 = \underline{\hspace{2cm}}$ 9. $17.06 = \underline{\hspace{2cm}}$

10. $0.13 = \underline{\hspace{2cm}}$ 11. $0.01 = \underline{\hspace{2cm}}$ 12. $2.39 = \underline{\hspace{2cm}}$

13. $0.005 = \underline{\hspace{2cm}}$ 14. $0.012 = \underline{\hspace{2cm}}$ 15. $9.003 = \underline{\hspace{2cm}}$

16. $1.01 = \underline{\hspace{2cm}}$ 17. $3.001 = \underline{\hspace{2cm}}$ 18. $7.7 = \underline{\hspace{2cm}}$

Directions: Convert these percents to decimals. The first two are done for you.

19. $24\% = \underline{0.24}$ 20. $2.3\% = \underline{0.023}$ 21. $9.08\% = \underline{\hspace{2cm}}$

22. $3.4\% = \underline{\hspace{2cm}}$ 23. $90.13\% = \underline{\hspace{2cm}}$ 24. $6.4\% = \underline{\hspace{2cm}}$

25. $44\% = \underline{\hspace{2cm}}$ 26. $19.4\% = \underline{\hspace{2cm}}$ 27. $1.1\% = \underline{\hspace{2cm}}$

28. $1.13\% = \underline{\hspace{2cm}}$ 29. $4\% = \underline{\hspace{2cm}}$ 30. $82.5\% = \underline{\hspace{2cm}}$

31. $7\% = \underline{\hspace{2cm}}$ 32. $1.03\% = \underline{\hspace{2cm}}$ 33. $1\% = \underline{\hspace{2cm}}$