

17. If 10 men consume $15\frac{3}{7}$ pounds of meat in 1 day, how much will 1 man consume?

18. If Charles walks 15 miles in $\frac{3}{5}$ of a day, how far can he walk in 1 day?

19. If the dividend is $\frac{25}{6}$ and the divisor $6\frac{1}{3}$, what is the quotient?

20. If 29 bushels of wheat cost $29\frac{3}{7}$ dollars, what will be the cost of 1 bushel?

21. If $\frac{7}{9}$ of a ton of hay is worth $15\frac{1}{3}$ dollars, what is the value of 1 ton?

22. If a bushel of apples costs $\frac{4}{5}$ of a dollar, and was sold for $\frac{7}{8}$ of a dollar, what would be the gain on 6 bushels?

23. If a mechanic received $12\frac{3}{5}$ dollars per week, and paid $3\frac{1}{2}$ dollars for board, how much will he save in 5 weeks?

24. What is the difference of $3\frac{1}{2}$ times $\frac{5}{6}$, and $\frac{2}{3}$ times $4\frac{1}{4}$?

25. One man earns $1\frac{3}{8}$ dollars in a day, and another earns $1\frac{3}{4}$ dollars: how much do both earn in 3 days?

26. If a person pays $\frac{3}{8}$ of a dollar per yard for linen, and sells it for $\frac{4}{7}$ of a dollar per yard, how much would he gain on 3 yards?

27. From the sum of $\frac{6}{7}$ and $\frac{9}{10}$ take $\frac{5}{6}$, and multiply the remainder by $\frac{2}{9}$: what will be the result?

28. If sugar costs $\frac{1}{10}$ of a dollar a pound, coffee $\frac{2}{5}$ of a dollar, and tea $\frac{7}{8}$ of a dollar, what will be the total cost of 7 pounds of each?

29. If a pair of pantaloons requires $2\frac{1}{2}$ yards of cloth, and a vest $\frac{7}{8}$ of a yard, how much will be left from a piece of 35 yards, after cutting off 3 suits?

30. How much of 50 dollars was left, after paying John for 16 days' work, at $1\frac{1}{2}$ dollar per day, and William for 15 days' work, at $\frac{7}{8}$ of a dollar per day?

DECIMAL FRACTIONS.

90. A DECIMAL FRACTION is one in which the unit is divided into *tenths*, *hundredths*, *thousandths*, &c.

When the unit is divided into 10 equal parts, there are 10 such parts of the unit, and each part is called, *one-tenth*.

If each tenth be divided into 10 equal parts, there will be 100 equal parts of the unit, and each part will be $\frac{1}{10}$ of $\frac{1}{10} = \frac{1}{100}$.

If each hundredth be divided into 10 equal parts, there will be 1000 equal parts of the unit, and each part will be $\frac{1}{10}$ of $\frac{1}{100} = \frac{1}{1000}$; and smaller parts may be obtained, by dividing continually by 10.

Notation and Numeration.

91. A period (.), called the *decimal point*, written before a figure, denotes the decimal division of the unit:

Thus, .1	is read,	1 tenth	= $\frac{1}{10}$.
.4	"	4 tenths	= $\frac{4}{10}$.
.7	"	7 tenths	= $\frac{7}{10}$.
&c.,			&c.

The second place from the decimal point, is the place of *hundredths*:

Thus, .01	is read,	1 hundredth	= $\frac{1}{100}$.
.04	"	4 hundredths	= $\frac{4}{100}$.
.07	"	7 hundredths	= $\frac{7}{100}$.
&c.,			&c.

The third place is the place of *thousandths* :

Thus, .001	is read,	1 thousandth	=	$\frac{1}{1000}$.
.004	"	4 thousandths	=	$\frac{4}{1000}$.
.007	"	7 thousandths	=	$\frac{7}{1000}$.
.008	"	8 thousandths	=	$\frac{8}{1000}$.
.009	"	9 thousandths	=	$\frac{9}{1000}$.
&c.,		&c.		

The fourth place is the place of *ten-thousandths*; the fifth, of *hundred-thousandths*; the sixth, of *millionths*, &c.

92. We numerate from the decimal point to the right, and name the *lowest fractional unit of the decimal*.

Thus, 3 tenths 0 hundredths 4 thousandths, are, *three hundred and four thousandths*.

Tenths.	Hundredths.	Thousandths.
.3	0	4

93. A **MIXED NUMBER** is composed of a whole number and a decimal: Thus, 27.047 is a mixed number, and is read, twenty-seven, and forty-seven thousandths.

Numeration Table.

Tens of Millions.	Millions.	Hundreds of Thousands.	Tens of Thousands.	Thousands.	Tens.	Units.	Decimal point.	Tenths.	Hundredths.	Thousandths.	Ten-thousandths.	Hundred-thousandths.	Millionths.	Ten-millionths.	
3	0	4	2	1	0	6	9	.	4	0	3	6	7	0	4

Examples.

- Express six-tenths in figures.
- Write, in figures, forty-one hundredths.
- Write, in figures, fifty-nine thousandths.
- Write, in figures, forty-seven ten-thousandths.
- Write, in figures, ninety-five thousandths.
- Write, in figures, eighty ten-thousandths.
- Write three hundred and twenty-seven thousandths.
- Write, in figures, forty-nine millionths.
- Write, in figures, nineteen ten-thousandths.
- Write, in figures, sixty ten-thousandths.
- Write, in figures, forty-one millionths.

Numerate and express in words the following decimals :

(12.)	(13.)	(14.)	(15.)	(16.)
.045	.6704	.0049	.21046	.1049

(17.)	(18.)	(19.)	(20.)	(21.)
.4704	.2147	.0412	.00497	.40264

- Express, in figures, four, and twenty-five hundredths.
- Write twenty-one, and forty-seven hundredths.
- Write sixty, and one thousandth.
- Write three hundred, and forty-nine thousandths.
- Write six hundred, and six hundredths.
- Write twenty-nine, and forty-one thousandths.

Numerate the following mixed numbers :

(28.)	(29.)	(30.)	(31.)
87.0471	904.27040	3601.0004	72045.20413

(32.)	(33.)	(34.)	(35.)
6274.0470	274.0416	167.0416	1874.04132

Principles of Decimal Notation.

1. That annexing ciphers to a decimal does not change its value.

Thus, $.4 = .40 = .400 = .4000$, &c.

2. That prefixing a cipher to a decimal diminishes its value ten times.

Thus, if we prefix a cipher to $.4$, it becomes $.04$, which is one-tenth of 4 tenths.

3. That the unit of any place, is one-tenth of the unit of the place next to the left—the same as in whole numbers.

4. That the denominator of a decimal fraction, though not written, is 1 with as many ciphers annexed as there are figures in the decimal.

Examples.

Write the following numbers decimally:

(1.) $\frac{3}{10}$	(2.) $\frac{5}{100}$	(3.) $\frac{6}{1000}$	(4.) $\frac{14}{100}$
(5.) $\frac{15}{1000}$	(6.) $14\frac{6}{100}$	(7.) $12\frac{5}{10}$	(8.) $15\frac{7}{100}$
(9.) $20\frac{15}{1000}$	(10.) $19\frac{56}{100}$	(11.) $9\frac{105}{1000}$	(12.) $10\frac{16}{1000}$
(13.) $9\frac{19}{1000}$	(14.) $\frac{150}{10000}$	(15.) $\frac{450}{100}$	(16.) $\frac{6540}{1000}$

Numerate the following decimals:

(17.) .27	(18.) .041	(19.) .0291	(20.) .1672
--------------	---------------	----------------	----------------

(21.) .04049	(22.) .04190	(23.) .2704	(24.) .67029
(25.) .00046	(26.) .04121	(27.) .0496	(28.) .270496

Numerate the following:

(29.) 159.04704	(30.) 169.5704	(31.) 1327.0493	(32.) 12704.41214
(33.) 214.67049	(34.) 214.0493	(35.) 14.04704	(36.) 16.416704

Write the following numbers in figures, and then numerate them: write, also, and name the denominator of each decimal.

37. Fifty-nine, and three-tenths.
38. Forty-five, and sixteen hundredths.
39. Sixty-four, and four thousandths.
40. Sixty-nine ten-thousandths.
41. Fifty-four one hundred thousandths.
42. Four hundred, and twenty-nine thousandths.
43. Five, and seven millionths.
44. Four thousand and six, and forty-nine millionths.
45. Fifty-six, and six ten-thousandths.
46. Fifteen hundred, and fifteen ten-millionths.
47. Thirty-nine, and six hundred and forty thousandths.
48. Five thousand, and five thousandths.
49. Thirty-six millions, and thirty-six millionths.
50. Thirty-one thousand, and forty-nine millionths.
51. Seventy-five hundred-thousandths.
52. Fifty-one, and fifty-one millionths.
53. Sixty thousand, and sixty-thousandths.

ADDITION.

94. ADDITION OF DECIMALS is the operation of finding the sum of two or more decimal numbers.

1. What is the sum of 3.04 2.81, and 86.36 ?

ANALYSIS.—Place the decimal points in the same column: this brings units of the same value in the same column: then add as in whole numbers.

OPERATION.

$$\begin{array}{r} 3.04 \\ 2.81 \\ \hline 86.36 \\ \hline 92.21 \end{array}$$

Rule.

I. Write the numbers to be added, so that units of the same value shall fall in the same column:

II. Add as in whole numbers, and place the decimal point in the sum directly under the points in the numbers added.

Proof.—The same as in simple numbers.

Examples.

(1.)	(2.)	(3.)
3.0493	27.7249	50.07049
7.02	8.049	9.97
<u>3.2704</u>	<u>9.60</u>	<u>7.6</u>

4. Add 25.625; 37.125; 187.1875; 96.1372; 1.625.
5. Add 6.6; 17.17; 29.05; 275.875; 181.62; .2647.
6. Add .5725; .875; .125; 5.27625; 19.687; 27.4726.
7. Add .05; .275; .17; .8; 2.8375; .1875; .00125; .5.
8. What is the sum of $4.2 + 16.02 + 27.002 + 99.99 + 8.8$?

9. Add 1.75; 179.875; 64.32; 28.9375; 28.28.

10. Add 100.95; 111.919; 229.619; 77.75625; .29; .167.

11. Add the following decimals: Twenty-seven hundredths; two, and fifty-seven hundredths; four hundred and twelve, and one hundred and twenty-two thousandths.

12. Add thirteen, and five-tenths; one, and ninety-six hundredths; sixty-six, and five thousandths; eighty, and one hundred and thirty-nine thousandths; five hundred and sixty-four, and twenty-four millionths.

13. What is the sum of $1.4 + 4.1 + .04 + 19.006 + 217.5$?

14. A person bought a horse for 175.375 dollars, a carriage for 296.875 dollars, a set of harness for 116.1875 dollars, and a quantity of feed for 38.3125 dollars: what was the cost of the whole ?

15. The expenses of a person, per week, are 5.25 dollars for board, 1.75 dollars for washing, .625 of a dollar for fuel and light, .60 of a dollar for travelling, .24 of a dollar for newspapers, and 2.25 dollars for incidental charges: what are his weekly expenses ?

16. Four persons, together, purchase a ship: the first pays 2165.50 dollars; the second pays 1563.75 dollars more than the first; the third pays 5625.1875 dollars, and the fourth pays 765.6875 dollars more than the third: what was paid for the ship ?

17. A gentleman bought a house for 3762.75 dollars; he paid 167.25 dollars for repairs, 112.625 dollars for painting, and 119.315 dollars for gas-fixtures; after which he sold the house, and gained 565 dollars: what did he receive for it ?

18. A drover had 6 horses, for which he asked the following prices: 1st, 275.50 dollars; 2d, 196.875 dollars; 3d, 216.25 dollars; 4th, 317.315 dollars; 5th, 375 dollars; and 6th, 225.75 dollars: what was the total value of the horses ?

SUBTRACTION.

95. SUBTRACTION OF DECIMALS is the operation of finding the difference between two decimal numbers.

1. What is the difference between 37.049 and 12.8704?

Rule.—I. Write the subtrahend so that its decimal point shall fall under that of the minuend:

II. If the decimal places in the numbers are not equal, make them so by annexing ciphers:

III. Then, subtract as in whole numbers, and place the decimal point, in the remainder, under that of the subtrahend.

Proof.—Same as in whole numbers.

Examples.

	(1.)	(2.)	(3.)
From	27.049	61.047	169.47041
Take	<u>3.149</u>	<u>21.9927</u>	<u>21.072</u>
Rem.			

- What is the difference of 87.306 and 49.978?
- From 3765.0075 take 896.87.
- From 1245.1875 take 750.375.
- How much does 67.875 exceed 49.9375?
- How much is 305.15 greater than 87.875?
- How much must be added to 15.25 to make it 31.315?

10. A person who had 159.37 dollars, lost 85.79 dollars: how much had he left?

11. A traveller had 97.5 miles to go: after having travelled 69.875 miles, what distance yet remained?

12. A person owes a debt of 246.125 dollars: should he pay 198.1875 dollars, how much would remain unpaid?

13. How much does 25.0625 dollars exceed 19.1875 dollars?

14. A farmer owes a merchant 47.5625 dollars; he pays 29.625 dollars in flour, and the rest in cash: how much cash does he pay?

15. It is proposed to raise 180.75 dollars by subscription; four persons subscribe 149.125 dollars, on condition that Mr. Jones will subscribe the remainder: how much must Mr. Jones subscribe?

16. Two boxes of sugar together weigh 39.475 hundredweight; one weighs 23.9875 hundredweight: what does the other weigh?

17. If two lots of ground contain 6745.25 square feet and one contains 3796.78965 square feet, how much does the other contain?

18. If I sell a house, which cost me 4716.6875 dollars, for 5910.16 dollars, what shall I gain?

19. The difference of two numbers is 27.965, and the larger one is 31.4761: what is the smaller one?

20. Thomas gained 57.625 dollars more than James: how much did James gain, if Thomas gained 82.175 dollars?

21. If two fields contain 641.847 acres, and the larger one contains 375.04 acres, how many acres will there be in the smaller field?

22. Mr. James bought 37.047 pounds of tea, and gave away 12.10904 pounds to a sick family: how much had he left?

Examples in Addition and Subtraction.

1. From the sum of one tenth and one hundredth, take the sum of one hundredth and one thousandth.

2. From the sum of five, and sixty-nine thousandths, take nine ten-thousandths.

3. If from two bags of salt, each containing 375.041 pounds, you take one bag containing 275.4708 pounds, how much will be left?

4. If from three bags of coffee, each containing 97.946 pounds, one bag be filled containing 98.075 pounds, how many pounds will be left?

5. A gentleman received from one person 67.75 dollars, and from another 89.25 dollars; he then paid 113.18 dollars: what had he remaining?

6. A piece of cloth measured 35.375 yards; from it the tailor cut three suits, requiring respectively 6.5 yards, 7.3125 yards, and 7.875 yards: how much of the piece remained?

7. A gentleman owned a lot of land, containing 1675 acres; he sold out of this lot, at various times, 275.75 acres, 164.375 acres, 396.875 acres, and 186.25 acres: how many acres remained?

8. A farmer gathered from one field 762.5 bushels of wheat, and from a second field 234.75 bushels: he sold at various times, 45.6 bushels, 176.15 bushels, and 260.875 bushels: how much then remained?

9. How much must we add to the sum of 475.75 and 296.875, to make 1062.9125?

10. A person owed 2563.625 dollars; he paid at different times, 156.75 dollars, 579.63 dollars, 492.16 dollars, and 297.74 dollars: how much remained unpaid?

11. If from the sum of $475.65 + 192.6325 + 99.1645$, you take the sum of $16.9725 + 43.1645 + 186.375$, what will be the remainder?

MULTIPLICATION.

96. MULTIPLICATION OF DECIMALS is the operation of taking one of two decimal numbers as many times as there are units in another.

1. Multiply 20.048 by 3.21.

The multiplier is placed under the multiplicand, and the multiplication is performed as in simple numbers. The decimal point is so placed in the product, that there shall be as many decimal places as there are in both factors.

OPERATION.			
20.048			
	3.21		
20048			
40096			
60144			
6435408			

Rule.

I. Write the multiplier under the multiplicand, and multiply as in whole numbers:

II. Point off in the product, from the right hand, as many places for decimals as there are decimal places in both factors; if there be not so many in the product, supply the deficiency by prefixing ciphers.

NOTE.—To multiply a decimal number by 10, 100, 1000, &c., remove the decimal point as many places to the right, as there are 0's in the multiplier.

Examples.

(1.)	(2.)	(3.)	(4.)
67.043	21.0497	69.1041	8.7509
<u>.04</u>	<u>.047</u>	<u>.446</u>	<u>.0041</u>
(5.)	(6.)	(7.)	(8.)
10.078	549.063	.04704	6.9743
<u>10</u>	<u>100</u>	<u>1000</u>	<u>1000</u>

9. Multiply 25.04 by .04. | 14. Multiply 87.04 by .0005.
 10. Multiply .3704 by .005. | 15. Multiply 65.01 by .0001.
 11. Multiply 97.079 by 3.049. | 16. Multiply 45.049 by 10.
 12. Multiply .6703 by .0496. | 17. Multiply .045 by 100.
 13. Multiply .75 by .005. | 18. Multiply 2.4903 by 1000.
19. Multiply the mixed number 1976.4625 by 2.7.
 20. Multiply the mixed number 2364.9775 by 1.62.
 21. Multiply the decimal .75646 by .6.
 22. Multiply the mixed number 47.69636 by .87.
 23. Multiply the mixed number 269.456 by .065.
 24. Multiply the mixed number 1847.6235 by 2.007.
 25. Multiply the decimal .00675 by 4.625.
 26. What is the product of .1725 and .0625?
 27. Multiply .5 by .5; also, .07 by .07.
 28. Multiply the mixed number 117.675 by .06125.
 29. Multiply the mixed number 694.68325 by 1000.
 30. Multiply the mixed number 1564.375 by 600.
 31. The multiplicand is 675.8725, and the multiplier is .875: what is the product?
 32. If in a month a person earns 267.625 dollars, what will he earn in 7.9 months?
 33. If a vessel sails 215.65 miles per day, how far will it sail in 24.75 days?
 34. If, in selling a barrel of flour, a merchant gains .625 dollars, how much would he gain in selling 2000 barrels, at the same rate?
 35. If a barrel of apples weighs 116.25 pounds, how much would 26.75 barrels weigh, at the same rate?
 36. In a franc there are 18.75 cents: how many cents are there in 250 francs?
 37. If 3.75 dollars will pay for a cord of pine wood, how much will pay for .875 of a cord?

38. How many are 675.625 times 1.87635?
 39. What will be the cost, at .1875 of a dollar per yard, of 15 pieces of calico, each measuring 37.5 yards?
 40. If each box contains 1897.75 pounds of sugar, how many pounds are contained in 29 boxes?
 41. If 7.875 yards of cloth are required for one suit of clothes, how many yards are required to furnish 3 regiments, each comprising 1200 men?

 DIVISION.

97. DIVISION OF DECIMALS is the operation of finding how many times one decimal number is contained in another.

1. Divide 28.9170 by 1.05.

Rule.—*Divide as in whole numbers, and from the right of the quotient, point off as many places for decimals as the decimal places in the dividend exceed those in the divisor; if there be not so many in the quotient, supply the deficiency by prefixing ciphers.*

OPERATION.	
1.05)	28.9170 (27.54
	210
	791
	735
	567
	525
	420
	420

NOTES.—1. If the divisor has *more* decimal places than the dividend, make the number equal by annexing ciphers to the dividend; *all the figures of the quotient will then be whole numbers.*

2. To divide by 10, 100, 1000, &c., remove the decimal point as many places to the left as there are ciphers in the divisor.

3. If the division does not *terminate*, write + after the quotient, which shows that it may be continued.

Examples.

$$\begin{array}{r} \text{(1.)} \\ .8 \overline{) 664} \\ \underline{.83} \end{array} \quad \begin{array}{r} \text{(2.)} \\ .8 \overline{) 4896} \\ \underline{6.12} \end{array} \quad \begin{array}{r} \text{(3.)} \\ .06 \overline{) 384} \\ \underline{6.4} \end{array} \quad \begin{array}{r} \text{(4.)} \\ .004 \overline{) 49.052} \\ \underline{12263} \end{array}$$

$$\begin{array}{r} \text{(5.)} \\ 10 \overline{) 27.046} \\ \underline{27046} \end{array} \quad \begin{array}{r} \text{(6.)} \\ 100 \overline{) 61.046} \\ \underline{.61046} \end{array} \quad \begin{array}{r} \text{(7.)} \\ 1000 \overline{) 470.43} \\ \underline{.47043} \end{array}$$

- | | |
|------------------------------|------------------------------|
| 8. Divide 78.964 by 4.5. | 16. Divide 12456 by .625. |
| 9. Divide 10.643 by 2.9. | 17. Divide .875 by 875. |
| 10. Divide 47.1065 by .75. | 18. Divide 2 by .16. |
| 11. Divide 874.625 by .08. | 19. Divide 14.75 by 9.5. |
| 12. $375.643278 \div .006 =$ | 20. $.36872567 \div .0025 =$ |
| 13. $48.9167562 \div .012 =$ | 21. Divide 1764 by .1764. |
| 14. Divide .96147 by 10. | 22. Divide 2.567 by 100. |
| 15. Divide 5000.5 by .5. | 23. Divide .5 by .005. |
24. The dividend is 45.675, and the divisor is 3.95: what is the quotient?
25. If 51.26 be divided by 1.68, what will be the quotient?
26. If 45 barrels of flour cost 327.1875 dollars, what will be the cost of one barrel?
27. If one box holds 63.75 pounds of tea, how many boxes will be required to hold 956.25 pounds?
28. If 6.5 bushels of oats are required to feed one horse for one month, how many horses would 318.16 bushels feed?
29. If a journey of 617.5 miles is performed in 16.25 hours, what was the rate per hour?

Miscellaneous Examples in the preceding Rules.

1. What is the sum of one-tenth and one-hundredth?
2. What is the difference between five-tenths and five-hundredths?
3. From six thousand take six-thousandths.
4. Multiply five-tenths by five-thousandths.
5. Divide one by one-tenth.
6. Divide 10 by one-hundredth.
7. From one-tenth take one-millionth.
8. Two persons are 37.6325 miles apart, and travelling towards each other; one at the rate of 3.25 miles an hour, and the other of 4.125 miles: how far will they be apart, after travelling 4 hours?
9. A person has a journey to perform of 456.75 miles. After travelling 15.375 hours, at the rate of 24.6 miles per hour, how far will he yet have to travel?
10. If 6 pounds of sugar cost .84 of a dollar, what will be the cost of one pound?
11. If 9 barrels of flour cost 57.33 dollars, what will 8 barrels cost?
12. At 12.5 dollars a ton, how much hay can be bought for 203.75 dollars?
13. A steam-ship makes the same distance every day, and in 12.3125 days goes 172.375 miles: what is her daily rate?
14. The divisor is 96.4, the quotient 162.82, and the remainder .419: what is the dividend?
15. If 1 man can build a wall 9.045 rods long in 4 days, how much wall can 5 men build in 1 day?
16. What will 37.47 yards of cloth cost, at 4.04 dollars a yard?
17. Multiply 30.0046 by 100.
18. Divide 1 by one-millionth.
19. If 1 yard of cloth costs 1.25 dollars, what will be the cost of 75 yards?

98. To change a common to a decimal fraction.

1. Reduce $\frac{3}{8}$ to a decimal.

Rule.—*Annex decimal ciphers to the numerator, and then divide by the denominator; pointing off as in division of decimals.*

$$\begin{array}{r} \text{OPERATION.} \\ 8 \overline{) 3.00} \\ \underline{.375} \end{array}$$

Examples.

1. Reduce $\frac{1}{2}$ to a decimal fraction.
 2. Reduce $\frac{5}{8}$ to a decimal fraction.
 3. Reduce $\frac{2}{5}$, $\frac{5}{16}$, and $\frac{9}{15}$ to decimal fractions.
 4. What decimal fraction is equal to $\frac{16}{25}$?
 5. What decimal fraction equals $\frac{21}{24}$?
 6. Reduce $\frac{11}{32}$ to a decimal fraction.
 7. Reduce $\frac{7}{40}$ and $\frac{2}{3}$ to decimal fractions.
 8. Change $\frac{17}{50}$ and $\frac{16}{80}$ to decimal fractions.
 9. Express $\frac{2}{5}$, $\frac{6}{16}$, and $\frac{9}{80}$ in decimal fractions.
 10. Reduce $\frac{240}{1250}$ and $3\frac{7}{8}$ to decimals.
 11. Reduce $\frac{16}{975}$ and $\frac{36}{450}$ to decimals.
 12. Reduce $\frac{5}{160}$, $\frac{16}{90}$, and $\frac{17}{200}$ to decimals.
99. To change a decimal to the form of a common fraction.
1. Change .88 to the form of a common fraction.

Rule.—*Write the denominator of the decimal, and reduce the fraction to its lowest terms.*

$$\begin{array}{r} \text{OPERATION.} \\ .88 = \frac{88}{100} = \frac{44}{50} = \frac{22}{25} \end{array}$$

Examples.

1. Change .47 to the form of a common fraction.
2. Change 4.69 to the form of a common fraction.
3. Change 3.004 to the form of a common fraction.
4. Change 64.0049 to the form of a common fraction.
5. Change 87.490 to the form of a common fraction.

UNITED STATES CURRENCY.

100. CURRENCY is the money of a country, established by law. It is composed of paper money and coins.

Coins.

101. COINS are pieces of metal, whose values are fixed by law.

The coins of the United States are the following:

1. Gold: Eagle, double-eagle, half-eagle, three-dollars, quarter-eagle, dollar.
2. Silver: Dollar, half-dollar, quarter-dollar, dime, half-dime, and three-cent piece.
3. Copper: Cent, half-cent.
4. Nickel: Cent.

102. The DOLLAR is the unit of United States Currency. It is divided decimally, for the denominations which are less than a dollar, and multiplied by 10 for those which are greater, according to the following

Table.

10 Mills (m.)	.	make	1 Cent,	.	marked	ct.
10 Cents	.	"	1 Dime,	.	"	d.
10 Dimes	.	"	1 Dollar,	.	"	\$.
10 Dollars	.	"	1 Eagle,	.	"	E.

Hence, a dime is *one-tenth* of a dollar; a cent, *one-tenth* of a dime; and a mill, *one-tenth* of a cent. Therefore, in writing,

The dollars fall at the left of the decimal point, the