Lesson 30a Dividing decimals by whole numbers

Find 78.32 ÷ 8.

$$8\overline{)78.32}$$

Put a decimal point in the answer directly above the decimal point in 78.32.

$$\begin{array}{r} 9.79 \\ 8\overline{)78.32} \\ -72 \\ \hline 63 \\ -56 \\ \hline 72 \\ -72 \\ \hline 0 \end{array}$$

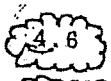
Divide in the same way that you divide whole numbers.

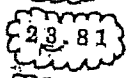
Divide.

1. $4\overline{)52.8}$
2. $7\overline{)6.51}$
3. $5\overline{)76.5}$
4. $8\overline{)6.304}$
5. $6\overline{)166.8}$
6. $7\overline{)316.4}$
7. $24\overline{)16.8}$
8. $33\overline{)149.16}$
9. 32.181 ÷ 51
10. 47.52 ÷ 8
11. 551.8 ÷ 62
12. 112.7 ÷ 49

Lesson 31a Dividing decimals by 10, 100, or 1000

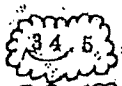
A. To divide by 10, move the decimal point *one* place to the *left*.

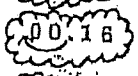
4.6 ÷ 10 = .46 

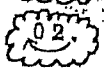
23.81 ÷ 10 = 2.381 

9 ÷ 10 = .9 

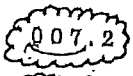
B. To divide by 100, move the decimal point *two* places to the *left*.

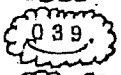
34.5 ÷ 100 = .345 

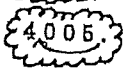
.16 ÷ 100 = .0016 

2 ÷ 100 = .02 

C. To divide by 1000, move the decimal point *three* places to the *left*.

7.2 ÷ 1000 = .0072 

39 ÷ 1000 = .039 

4005 ÷ 1000 = 4.005 

Divide.

1. 3.3 ÷ 10
2. .08 ÷ 10
3. 2.701 ÷ 10
4. .5 ÷ 10
5. 13 ÷ 10
6. 208 ÷ 10
7. 45.3 ÷ 100
8. 25 ÷ 100
9. 1.8 ÷ 100
10. .45 ÷ 100
11. .9 ÷ 100
12. 6 ÷ 100
13. 58.1 ÷ 1000
14. 4628 ÷ 1000
15. 73 ÷ 1000
16. 8 ÷ 1000
17. 5.2 ÷ 1000
18. 101 ÷ 1000
19. .26 ÷ 100
20. .34 ÷ 10
21. 55.9 ÷ 100
22. 1 ÷ 1000
23. .061 ÷ 10
24. 3.07 ÷ 10