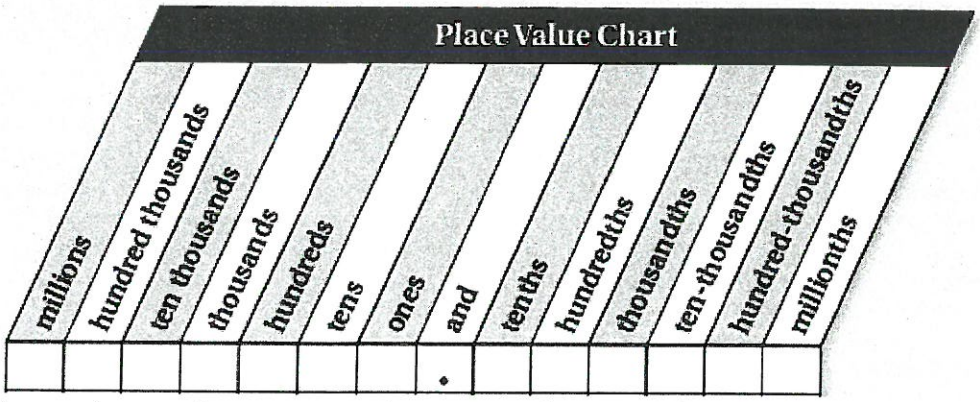
## Section 2.4: Adding and Subtracting Decimals Teacher Notes

**Objective**: Students will add and subtract decimals.




** have the students properly put six thousand five hundred thirty two and four hundred ninety one thousandths into the chart above.

When adding and subtracting decimals, **line up the decimals first**

Examples:

| | |
|---|---|
| 1.) 8.13 + 2.76<br><br>8.13<br>+ 2.76<br>10. 89 | 2.) 1.45 + 23.7<br><br>1.45<br>+ 23.70<br>25.15 |
| 3.) 5.08 – 3.74<br><br>5.08<br>- 3.74<br>1.34 | 4.) 15.9 – 3.17<br><br>15.90<br>- 3.17<br>12.73 |

5a.) Your meal at the school cafeteria cost $3.40. Your friend's meal cost $3.90. How much was your total meal?

3.40
+3.90
$7.30

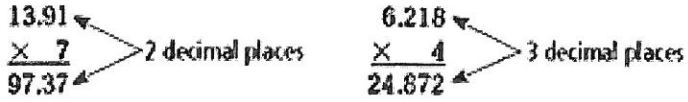
5b.) You pay for both meals with $8. How much change do you receive?

8.00
-7.30
$0.70

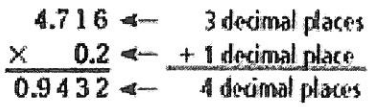
# Section 2.5: Multiplying Decimals Teacher Notes

Objective: Students will multiply decimals.

**Multiplying decimals by whole numbers:**
-Multiply the numbers
-Place the decimals




**Multiplying decimals by decimals:**
-Multiply the numbers
-Place the decimals




Examples:

1.) 13.91 x 7

13.91 ← 2 places
x 7
97.37

2.) 3.45 x 0.6

3.45 ← 2 places
x 0.6 ← 1 place
2.07 ← 3 places

3.) 4.8 x 7.2

4.8 ← 1 place
x 7.2 ← 1 place
96 2 places total
3360
34.56

4.) 0.7 x 0.5

0.5 ← 1 place
x 0.7 ← 1 place
0.35 ← 2 places total

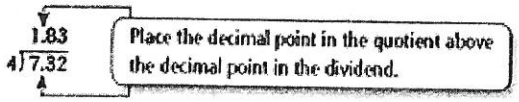
5.) You buy 4 cans of soda for $1.28 per soda. How much did you spend on soda?

1.28
x 4
$5.12

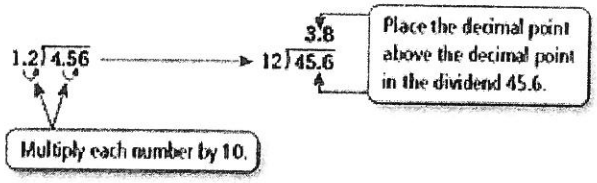
# Section 2.6: Dividing Decimals Teacher Notes

**Objective**: Students will divide decimals.

**Dividing Decimals by Whole Numbers:**
-Place the decimal point in the same place directly above the original problem.
-Divide the numbers

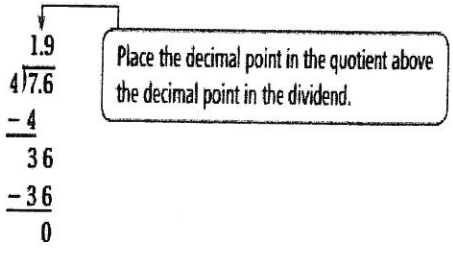



**Dividing Decimals by Decimals:**
-Move the decimal away from the outside number (divisor) and move the decimal the same number of spaces on the inside number (dividend)
-Place the decimal point in the same place directly above the original problem.
-Divide the numbers



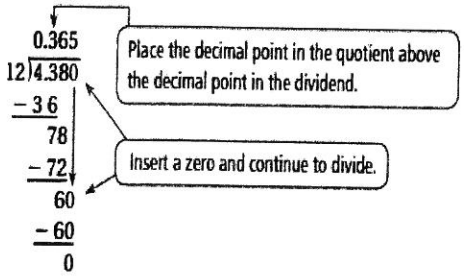

Examples:

1.) $7.6 \div 4$



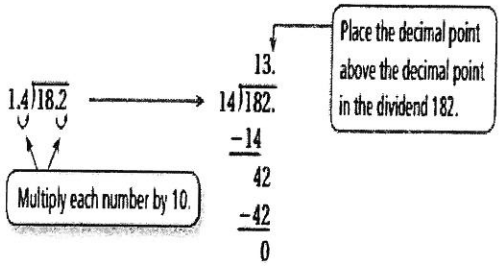

∴ So, $7.6 \div 4 = 1.9$. Reasonable? $1.9 \approx 2$ ✓

2.) $4.38 \div 12$




∴ So, $4.38 \div 12 = 0.365$. Check $0.365 \times 12 = 4.38$ ✓

3.) $18.2 \div 1.4$




∴ So, $18.2 \div 1.4 = 13$. Check $13 \times 1.4 = 18.2$ ✓

4.) $2.6 \div 0.5$

$$
\begin{array}{r}
5.2 \\
5\overline{)\,26} \\
-25 \\
\hline
10 \quad \text{(Brought down a zero)} \\
-10 \\
\hline
0
\end{array}
$$

5.) Three friends split a bag of chips. The total cost is $4.80. How much does each person pay?

$$
\begin{array}{r}
1.6 \\
3\overline{)\,4.8} \\
\underline{-3} \\
18 \\
\underline{-18} \\
0
\end{array}
$$

**$1.60 per person**