

**Lesson  
7.3f**
**Word Problems**

<b>Objectives</b> Solve word problems involving division of decimals.	<b>California Standards</b> <b>MR 2.1:</b> Use estimation to verify the reasonableness of calculated results. <b>MR 3.2:</b> Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.
<b>Vocabulary/Phrases</b> Unit                      Divide Equal                      Total	

<b>Teaching Strategies</b>		
<b>Word problems involving division of decimals</b>	<p>Use <b>tasks 23-26, Textbook p. 65-66</b> to discuss word problems involving division of decimals. Make sure that students are able to relate the word problems to the drawings on these pages. In each of the drawings, the parts are <u>equal units</u>. A major strategy in solving these type of word problems is to find the value for one unit. In problems that involve <u>division</u> as a first step, we are usually given either the <u>total</u> or the value of several units and need to first find the value of 1 unit.</p> <p>For task 23:</p> <p>1 unit represents the cost of 1 packet of dates. All units are the same since each packet costs the same. We need to find the value of 1 unit.</p> <p>5 units = \$8</p> <p>1 unit = <math>\\$8 \div 5 = \\$1.60</math></p> <p>2 units = <math>\\$1.60 \times 2 = \\$3.20</math></p>	<p>Textbook p. 65</p> <p>23. 3.20</p> <p>24. 3.60, 3.60</p> <p>Textbook p. 66</p> <p>25. 0.95, 0.95</p> <p>26. 1.08, 1.08</p>
	<p>For task 24:</p> <p>The shorter bar is 1 unit of money. The longer bar represents 3 times as much money, and is therefore 3 units.</p> <p>3 units = \$5.40</p> <p>1 unit = <math>\\$5.40 \div 3 = \\$1.80</math></p> <p>We can find how much more one has than the other by subtraction, as shown in the text. If we have the unit value, we may also use multiplication.</p> <p>2 units = <math>\\$1.80 \times 2 = \\$3.60</math></p> <p>You can also ask how much money they have altogether.</p> <p>4 units = <math>\\$1.80 \times 4 = \\$7.20</math></p> <p>or: <math>\\$5.40 + \\$1.80 = \\$7.20</math></p>	