


Lesson 7.2a	Word Problems
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<p>Objectives</p> <ul style="list-style-type: none"> • Solve word problems involving weights using part-whole or comparison models. 	<p>California Standards</p> <p>NS 2.1: Find the sum or difference of two whole numbers between 0 and 10,000.</p> <p>NS 2.4: Solve simple problems involving multiplication of multidigit numbers by one-digit numbers.</p> <p>NS 2.5: Solve division problems in which a multidigit number is evenly divided by a one-digit number.</p> <p>AF 1.4: Express simple unit conversions in symbolic form.</p> <p>MG 1.4: Carry out simple unit conversions within a system of measurement.</p>
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Teaching Strategies	
Solve word problems using part-whole model	<p>Have students look at the weight of the two jars in Textbook p. 36.</p> <p>Ask students how heavy each jar is. (350 g, 1 kg 200 g)</p> <p>Tell students that the empty jar weighs 350 g. The one filled with marbles weighs 1 kg 200 g.</p> <p>Ask students what they need to find. (Weight of the marbles) What do they know? (Weight of the empty jar and weight of the jar with marbles.)</p>
<p>Tell students that they need to find the weight of the marbles. How heavy the empty jar is and the weight of the jar and the marbles together is given in the Textbook.</p> <p>Ask students how to show this in a model.</p> <p>Tell students to draw a part-whole model where 1 kg 200 g is the total and 350 g is one of the parts.</p> <p>Draw 1 long bar. Do not label it just yet.</p>	
<p>Ask students the following.</p> <ul style="list-style-type: none"> • How many parts do they have? (2) • How big is each part? (One larger than the other.) • Which is smaller? Which is larger? (Weight of the empty jar is smaller, weight of marbles is larger) • What is the whole? (Weight of the jar and marbles) 	
<p>Tell students to divide the bar into 2 parts, one smaller than the other. The smaller part is the weight of the empty jar, which is labeled 350 g. The whole is the total weight of the jar and marbles. They should label that 1 kg 200 g. They should put a '?' for the weight of the marbles which they are to find.</p>	