

Lesson 4 Problem-Solving Practice

Multiply Mixed Numbers

FOOD For Exercises 1–3, use the table. The table shows Keith’s food options for a 7-day outdoor survival course.

Food Options for 7-Day Outdoor Survival Course	
Peanut butter	1 plastic jar = $4\frac{3}{5}$ cups
Dried noodles/rice	$14\frac{2}{3}$ cups
Dried fruit/nuts	$6\frac{1}{6}$ cups
Concentrated juice boxes	8 boxes = $16\frac{1}{4}$ cups
Beef jerky	$3\frac{1}{3}$ cups
Powdered milk	1 box = $8\frac{4}{5}$ cups
Dehydrated soup	5 packages = $15\frac{2}{3}$ cups
Canned tuna/meat	4 cans = $5\frac{3}{5}$ cups

<p>1. Keith plans on eating $1\frac{1}{4}$ cups of tuna per day for five days. How much tuna does he need? Is 4 cans enough?</p>	<p>2. Keith would like to bring enough concentrated juice in order to have $2\frac{1}{4}$ cups available per day. How much juice does he need and is 8 boxes of concentrated juice enough?</p>
<p>3. Six other students have been advised to bring the same menu on the course. How many cups of dried fruits and nuts will the students be bringing all together?</p>	<p>4. MEASUREMENT Fahad wants to put a large mural on a wall that is $9\frac{1}{3}$ feet long and $8\frac{1}{8}$ feet wide. Find the area of the wall. If the mural is 100 square feet, will it fit on the wall?</p>
<p>5. PAINTING Pia is mixing $3\frac{1}{5}$ batches of tempera paint. If one batch calls for $2\frac{3}{4}$ tablespoons of detergent to add to the tempera powder, how many tablespoons of detergent will Pia need?</p>	<p>6. COOKING To make a batch of fruit punch, Landon needs $2\frac{2}{3}$ cups of blackberry juice. If he wants to make $2\frac{3}{4}$ batches of punch, how many cups of blackberry juice will he need?</p>