

Lesson 7 Reteach

Problem Solving: Make an Organized List

Stephanie is setting up files for her business. She has organized her clients in alphabetical order by last name. Stephanie has numbered the drawers of her file cabinet. She will use one drawer for every four letters of the alphabet. What number will be on the drawer for clients with a last name that begins with R?

<p>Step 1 Understand</p>	<p>What facts do you know?</p> <p>Stephanie’s client files are arranged in alphabetical order by last name. Stephanie has numbered the drawers of her file cabinet. She will use one drawer for every four letters of the alphabet.</p> <p>What do you need to find?</p> <p>I need to find the number on the drawer that will hold files for clients whose last name begins with the letter <i>R</i>.</p>																
<p>Step 2 Plan</p>	<p>Make a plan.</p> <p>I will make a list that shows which letters of the alphabet will be assigned to each numbered drawer.</p>																
<p>Step 3 Solve</p>	<p>Carry out your plan.</p> <p>So, files for clients whose last name begins with <i>R</i> will be in drawer number 5.</p> <table border="1" data-bbox="773 1377 1008 1724"> <thead> <tr> <th>Drawer</th> <th>Letters</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A–D</td> </tr> <tr> <td>2</td> <td>E–H</td> </tr> <tr> <td>3</td> <td>I–L</td> </tr> <tr> <td>4</td> <td>M–P</td> </tr> <tr> <td>5</td> <td>Q–T</td> </tr> <tr> <td>6</td> <td>U–X</td> </tr> <tr> <td>7</td> <td>Y–Z</td> </tr> </tbody> </table> <div data-bbox="1117 1570 1360 1661" style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;"> <p>R comes between Q and T.</p> </div>	Drawer	Letters	1	A–D	2	E–H	3	I–L	4	M–P	5	Q–T	6	U–X	7	Y–Z
Drawer	Letters																
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<p>Step 4 Check</p>	<p>Make sure your answer is reasonable.</p> <p>You can double-check your list to make sure you’ve included all letters of the alphabet.</p>																

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Problem Solving (continued)

Make an organized list to solve.

1. Charlie has a pair of jeans and a pair of green pants. He has a black sweater, a grey shirt, and a blue shirt. How many different pants and shirt combinations can Charlie make? Write the combinations.

6 combinations; jeans, black sweater; jeans, grey shirt; jeans, blue shirt; green pants, black sweater; green pants, grey shirt; green pants, blue shirt

2. Darryl gets to choose the number for his football uniform. He must choose a multiple of 7 that is an even number less than 77. What are Darryl's choices?

14, 28, 42, 56, and 70

3. Vanna works 3 days per week. She always works Monday, and she never works Friday or Sunday. What combinations of work days are possible for Vanna each week?

**Monday, Tuesday, Wednesday
Monday, Tuesday, Thursday
Monday, Tuesday, Saturday
Monday, Wednesday, Thursday
Monday, Wednesday, Saturday
Monday, Thursday, Saturday**

4. Grace goes to the garden center to buy flowers. She likes daisies, lilies, pansies, and poppies. Grace can buy only 3 kinds of flowers. What possible combinations of flowers could she buy?

**daisies, lilies, pansies
daisies, lilies, poppies
daisies, pansies, poppies
lilies, pansies, poppies**