

Lesson 8 Reteach

Problem Solving: Extra or Missing Information

Helena had 100 marbles. Two-tenths of the marbles are blue. She took $\frac{3}{10}$ of the marbles to Jeremy's house. Helena gave 4 marbles to Jeremy. How many marbles did Helena take back home?

<p>Step 1</p> <p>Understand</p>	<p>What facts do you know?</p> <p>Helena had 100 marbles.</p> <p>$\frac{2}{10}$ of the marbles are blue.</p> <p>She took $\frac{3}{10}$ of the marbles to Jeremy's house.</p> <p>She gave 4 marbles to Jeremy.</p> <p>What do you need to find?</p> <p>I need to find the number of marbles Helena took home.</p>
<p>Step 2</p> <p>Plan</p>	<p>Make a plan.</p> <p>I will find extra or missing information to solve the problem.</p>
<p>Step 3</p> <p>Solve</p>	<p>Carry out your plan.</p> <p>The fact that $\frac{2}{10}$ of the marbles are blue is extra information.</p> <p>Find $\frac{3}{10}$ of 100: $\frac{3}{10} = \frac{30}{100}$ ←</p> <div data-bbox="873 1335 1156 1478" style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Helena took 30 marbles to Jeremy's house.</p> </div> <p>Subtract the number of marbles Helena gave away:</p> $30 - 4 = 26$ <p>So, Helena took home 26 marbles.</p>

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Problem Solving: Extra or Missing Information (continued)

Step 4	Make sure your answer is reasonable.
Check	I will add to check my answer. $4 + 26 = 30; \frac{30}{100} = \frac{3}{10}$ The answer is reasonable.

Determine if there is extra or missing information. Then solve if possible.

- At the cafeteria, an apple costs $\frac{40}{100}$ of a dollar, a yogurt cup costs $\frac{75}{100}$, and a pack of crackers costs $\frac{25}{100}$. How much did Sonia spend on an apple and a pack of crackers?

- Nolan had 20 dimes. It takes 3 dimes to buy a pencil from the vending machine. Nolan bought more than one pencil. How many dimes does he have left?

- Carson folded 10 items of clothing. Four of the items were shirts. He still has twice as many items left to fold. What fraction of the items Carson folded were not shirts?

- Danica jogged $\frac{3}{10}$ of the way to school and walked $\frac{1}{10}$ of the way. What is the total distance Danica jogged or walked?
