

# Problem Solving: Draw a Picture and Write an Equation

<b>Understand</b>	<p>Pippa filled <math>\frac{1}{8}</math> of a jar with blue stones, <math>\frac{1}{4}</math> of the jar with yellow stones, and <math>\frac{1}{2}</math> of the jar with purple stones. How much of the vase is filled altogether?</p> <p>What do I know? Pippa filled <math>\frac{1}{8}</math>, <math>\frac{1}{4}</math>, and <math>\frac{1}{2}</math> of the vase.</p> <p>What am I asked to find? How much of the vase is filled with stones altogether</p>
<b>Plan</b>	<p>Find the common denominator between <math>\frac{1}{8}</math>, <math>\frac{1}{4}</math>, and <math>\frac{1}{2}</math> so you can add the fractions.</p> $\frac{1}{8} = \frac{1}{8}$ <p>8 is divisible by 2, 4, and 8, so <math>\frac{1}{4} = \frac{2}{8}</math></p> <p>8 is the common denominator. <math>\frac{1}{2} = \frac{4}{8}</math></p>
<b>Solve</b>	<p>Now add the fractions and simplify if you need to.</p> $\begin{array}{r} \frac{1}{8} \\ \frac{2}{8} \\ + \frac{4}{8} \\ \hline \frac{7}{8} \end{array}$ <p>Pippa filled the jar <math>\frac{7}{8}</math> full of stones.</p>
<b>Look Back</b>	I found the common denominator, changed the fractions to equivalent fractions, and added the numerators to find the answer.

Solve. Remember to simplify your answer.

- Joel walked  $\frac{2}{5}$  of a mile to the store,  $\frac{3}{10}$  of a mile to the library, and  $\frac{1}{20}$  of a mile to the post office. How far did he walk?

\_\_\_\_\_

- Number Sense** Glenda wrote  $\frac{1}{7}$  of her paper on Monday,  $\frac{1}{14}$  of her paper on Tuesday, and  $\frac{2}{28}$  of her paper on Wednesday. She said she wrote more than half of her paper. Is she correct? Why or why not?

\_\_\_\_\_

\_\_\_\_\_