

<p>3) Solve for m.</p> $6.5 + m = 17$	<p>3) Academic Vocabulary: equation, inverse operation, variable, decimal, align, difference, solution</p>
<p> $\begin{array}{r} 6.5 + m = 17 \\ \cancel{6.5} + m = \cancel{17.0} \\ -6.5 -6.5 \\ \hline m = 10.5 \end{array}$ </p> <div style="border: 1px solid red; padding: 5px; width: fit-content; margin: 10px auto;"> $m = 10.5$ </div>	<p>Sample Written Response: First I wrote the <u>equation</u>. 6.5 is being added with the <u>variable</u>, so I performed the <u>inverse operation</u>, which is subtraction. I was sure to <u>align</u> the <u>decimals</u> when subtracting and got a <u>difference</u> of 10.5. Therefore, the <u>solution</u> is $m = 10.5$.</p>
<p>4) Solve for x. Round your answer the nearest hundredth if necessary.</p> $4.3x = 9$	<p>4) Academic Vocabulary: divisor, dividend, decimal, whole number, quotient, round, place value, solution</p>
<p> $\begin{array}{r} 4.3x = 9 \\ \cancel{4.3}x = \cancel{9} \\ \cancel{4.3} \cancel{4.3} \\ \hline x = 2.09 \end{array}$ </p> <div style="display: inline-block; vertical-align: middle; margin-left: 20px;"> \longrightarrow </div> <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> $\begin{array}{r} 4.3 \overline{) 9.000} \\ \underline{8.6} \\ 40 \\ \underline{40} \\ 00 \\ \underline{00} \\ 00 \\ \underline{00} \\ 00 \end{array}$ </div>	<p>Sample Written Response: First I wrote the <u>equation</u>. 4.3 is multiplied with x so I performed the inverse operation, which is division. When dividing 9 by 4.3, I had to convert 4.3 into a <u>whole number</u>, so I moved the <u>decimal</u> in the <u>divisor</u> once to the right. I did the same thing to the <u>dividend</u> by adding zeros as place holders. I divided to the <u>thousandths place value</u> so I could round to the nearest hundredth. I ended up <u>rounding my quotient</u> of 2.093 and got a <u>solution</u> of $x = 2.09$.</p>
<p>5) Solve for p.</p> $\frac{p}{3.6} = 7.28$	<p>5) Academic Vocabulary: balanced equation, inverse operation, digit(s), decimal, solve, product</p>
<p> $\begin{array}{r} \frac{p}{3.6} = 7.28 \\ \cancel{3.6}(\frac{p}{\cancel{3.6}}) = (7.28) \cancel{3.6} \\ \hline p = 26.208 \end{array}$ </p> <div style="display: inline-block; vertical-align: middle; margin-left: 20px;"> \longrightarrow </div> <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> $\begin{array}{r} 7.28 \\ \times 3.6 \\ \hline 4368 \\ +21840 \\ \hline 26.208 \end{array}$ </div>	<p>Sample Written Response: First I wrote the equation and noticed the variable is being divided by 3.6. I performed the <u>inverse operation</u>, which is multiplication, to both sides of the equal sign to maintain a <u>balanced equation</u> and <u>solve</u> for p. I multiplied 7.28 by 3.6 and got a <u>product</u> of 26.208. I was sure to count how many <u>digits</u> were behind the <u>decimals</u> and then moved the <u>decimal</u> in my <u>product</u> the same number of times (3). I ended up with a solution of $p = 26.208$.</p>