## 3) Solve for m.

### 6.5 + m = 17

#### 3) Academic Vocabulary:

equation, inverse operation, variable, decimal, align, difference, solution

## 6.5 + m = 17

$$6.5 + m = 17.0$$
 $-6.5$ 
 $-6.5$ 
 $m = 10.5$ 

$$m = 10.5$$

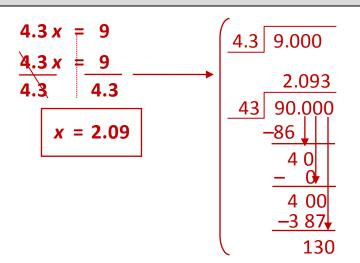
#### **Sample Written Response:**

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 solution is m = 10.5.

## 4) Solve for x. Round your answer the nearest hundredth if necessary. 4.3 x = 9

#### 4) Academic Vocabulary:

divisor, dividend, decimal, whole number, quotient, round, place value, solution



#### **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 thousandths <u>place value</u> so I could round to the nearest hundredth. I ended up <u>rounding</u> my <u>quotient</u> of 2.093 and got a <u>solution</u> of x = 2.09.

5) Solve for p.

$$\frac{p}{3.6} = 7.28$$

#### 5) Academic Vocabulary:

balanced equation, inverse operation, digit(s), decimal, solve, product

# $\frac{p}{3.6} = 7.28$ $3.6(\frac{p}{3.6}) = (7.28) \ 3.6$ p = 26.208 7.28 $\frac{x \ 3.6}{4368}$ +21840 26.208

#### Sample Written Response:

First I wrote the equation and noticed the variable is being divided by 3.6. I performed the <u>inverse</u> <u>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.