

Name: \_\_\_\_\_

**Homework – Monday (May 6, 2019)**

Solve the following problems **without a calculator**. You ***MUST*** show your work. ***NO WORK = NO CREDIT.***

<p>1. A system of equations is shown below.</p> $y = \frac{1}{2}x + 2$ $y = -9 - 5x$ <p>What is the solution?</p>	<p>2. Solve.</p> $3(2x - 1) = 5(x + 2) + x$
<p>3. A car rental company charges \$34 per day for a rented car and \$0.50 for every mile driven. A second rental company charges \$20 per day and \$0.75 for every mile driven. What is the number of miles at which both companies charge the SAME amount for a one-day rental?</p>	<p>4. Fifteen is three more than six times a number.</p> <p>a. Write an equation for this phrase.</p> <p>b. Solve the equation to find the number.</p>

**Homework- Tuesday (May 7, 2019)**

Solve the following problems **without a calculator**. You ***MUST*** show your work. ***NO WORK = NO CREDIT.***

<p>1. Simplify.</p> $6^{-7} \cdot \frac{1}{6^3}$	<p>2. Simplify.</p> $\frac{5^4 \cdot 5^6 \cdot 2^7}{2^{-2} \cdot 5^2 \cdot 5^2 \cdot 2^4}$
<p>3. Hilda received a \$50 gift card to an online store. She wants to purchase some bracelets that cost \$8 each. There will be a \$10 overnight delivery fee.</p> <p>a. Write an equation for this situation.</p> <p>b. Solve the equation to see how many bracelets Hilda can purchase.</p>	<p>4. The value of expression two is 20,000 times greater than the value of expression one. What is the value of <math>y</math>?</p> <p>expression one: <math>2 \times 10^x</math> expression two: <math>4 \times 10^{x+y}</math></p>

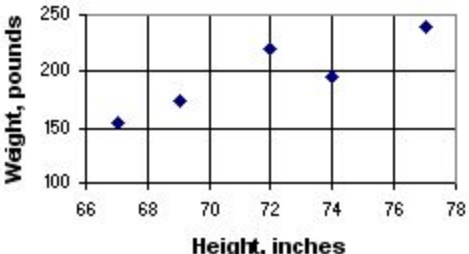
**Homework - Wednesday (May 8, 2019)**

Solve the following problems **without a calculator**. You **MUST** show your work. **NO WORK = NO CREDIT.**

<p>1. Manuel bought a shirt and a sweater for a total price of \$65. The price of the sweater was \$5 more than twice the price of the shirt. What was the price of the shirt?</p>	<p>2. Solve.</p> $12(x - 2) + 3x = \frac{1}{2}(x + 6) + 2$
<p>3. Write the equation in slope-intercept form.</p> $4x - 2y = 18$	<p>4. A square has an area of 64 square units. A cube has a volume of 64 cubic units. What is the difference in the side length of the square and the length of one edge of the cube?</p>

**Homework - Thursday (May 9, 2019)**

Solve the following problems **without a calculator**. You **MUST** show your work. **NO WORK = NO CREDIT.**

<p>1. 15 girls performed community service and 5 girls did not. 10 boys performed community service and 15 boys did not.</p> <p>a. Fill in the table.</p> <table border="1" data-bbox="142 1241 737 1430"> <tr> <td></td> <td>girls</td> <td>boys</td> </tr> <tr> <td>community service</td> <td></td> <td></td> </tr> <tr> <td>no community service</td> <td></td> <td></td> </tr> </table> <p>b. Find the relative frequency of girls who perform community service. Write as a percent.</p>		girls	boys	community service			no community service			<p>2. A teacher asked a class which ice cream flavor and toppings they prefer. The results of the survey are shown in the table.</p> <table border="1" data-bbox="889 1241 1484 1430"> <tr> <td></td> <td>vanilla</td> <td>chocolate</td> <td>strawberry</td> </tr> <tr> <td>hot fudge</td> <td>8</td> <td>7</td> <td>2</td> </tr> <tr> <td>caramel</td> <td>5</td> <td>4</td> <td>2</td> </tr> </table> <p>Based on the table, which combination did 25% of the students prefer?</p>		vanilla	chocolate	strawberry	hot fudge	8	7	2	caramel	5	4	2
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	vanilla	chocolate	strawberry																			
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<p>3. The scatterplot shows the weight of students according to their height. If the trend continued, about how much would someone weigh if they were 80 inches tall?</p> 	<p>4. Identify the data sets as having a positive, a negative, or no correlation.</p> <p>_____ a. The number of hours a person has driven and the number of miles driven.</p> <p>_____ b. The number of siblings a student has and the grade they have in math class.</p> <p>_____ c. The age of a car and the value of the car.</p> <p>_____ d. The number of weeks a CD has been out and the total sales.</p>																					

