**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Unit 2B: Equations Study Guide**

**Test Date: THURSDAY, NOVEMBER 8th**

**ONE-STEP EQUATIONS. SOLVE. SHOW ALL WORK FOR FULL CREDIT!**

|  |  |
| --- | --- |
| $$x-5.6=1.2$$ | $$\frac{x}{3}=8$$ |
| $$-2x=-6$$ | $$\frac{2}{3}x=8$$ |

**TWO-STEP EQUATIONS. SOLVE. SHOW ALL WORK FOR FULL CREDIT!**

|  |  |
| --- | --- |
| 2$x+6=8$ | -4$x-9=-3$ |
| $$-\frac{2}{3}x+6=-1$$ | $$4+\frac{1}{5}x=-1$$ |
| $$2r-3.1=1.7$$ | $\frac{x}{2}$ + 12 = - 16 |
| $$\frac{2}{5}x+3=28$$ | 0.80x -1.0 = 0.60 |

**DISTRIBUTE & SOLVE EQUATIONS. SOLVE. SHOW ALL WORK FOR FULL CREDIT!**

|  |  |
| --- | --- |
| 3(2x + 5) = 59 | $$2\left(6x-1\right)=-38$$ |
| -2(5 + 6x) = 110 | $$\frac{1}{2}(4x+8)=28$$ |
| 12 = -2(3 + x) | 6(2x – 5) = 54 |

**WORD PROBLEMS. WRITE AN EQUATION AND SOLVE. SHOW ALL WORK FOR FULL CREDIT!**

The CMS band purchased new t-shirts and instruments. The cost for instruments was $520. T-shirts cost $20 per shirt. If the total cost of their purchase was $1000, how many uniforms did they buy?

**VARIABLE:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EQUATION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SOLVE.**

The hotel you are staying in, charges a fee of $15 for parking and $3per day to use the gym. If your total bill was $45, how many times did you go to the gym?

**VARIABLE:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EQUATION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SOLVE.**

Timmy is having his birthday party at SkyZone. It costs $150 to rent a room and $13 per person. The total bill for the party was $371. How many friends did Timmy invite?

**VARIABLE:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EQUATION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SOLVE.**