Review Octobet 1,2018

Test October 11, 2018

8th Grade

Part I Solve each equation for the given variable.

1. The formula $a=46c$ gives the floor area a in *a in square meters that* can be wired using *c* circuits.

a. solve $a=46c$ for *c*

*b. if a room is 322 square meters, how many circuits are required to wire the room.*

1. The formula for a person’s typing speed is s= $\frac{w-10e}{m}$, where s is speed in words per minute, w is number of words typed and e is number of errors. solve this formula for e
2. solve $st+3t=6 $ for s
3. solve $b+c=\frac{10}{a}$ for a

Part II solve each absolute value equation

1. $-8=\left|x+2\right|- 8$
2. $\left|4x\right|+9= 9$
3. $3\left|x+7\right|=24$

**Part III Write each inequality and words then graph them.**

|  |  |  |
| --- | --- | --- |
| Inequality | words | graph |
| $$x<-4$$ |  |  |
| $$m>17$$ |  |  |
| $$z\leq 0$$ |  |  |
| $$j\geq 32$$ |  |  |

 Part IV Solve each inequality by adding or subtracting graphs your answer

1. $226 >u+40$
2. $p-12\geq -3$
3. $x+25\geq -3$
4. $-45\geq g-16$

Part V solve each inequality by Multiplying and Dividing Graph your answer

1. $\frac{Y}{2}<-8.3 $
2. $-8\leq 200$
3. $65\leq -r$
4. $4m<-76$

Part IV Solve each Multistep inequality (show all steps

1. $2m++>13$
2. $4y-9\geq 7$
3. $10>6+\frac{Y}{5}$
4. $3+ \frac{b}{5}\geq 7 $