8h review

***Test Date*** August 31, 2018

***Part I*** Solve each equation by adding or subtracting show all steps (3pts each)

1. $x+8=9$
2. $-8+c=2$
3. $r+0.4=0.7$
4. $k-8=-7$
5. $\frac{3}{5}$ + m = $\frac{4}{5}$

***Part II*** Solve each equation by multiplying and dividing show all steps (3pts each)

1. $\frac{j}{3}=-9$
2. $-4.8=-6v$
3. $13=-2b$
4. $\frac{2}{3}x=-20$
5. $9y=-108$

***Part III*** solve each multistep equation

1. $5=2g+1$
2. $6=-2(7-c)$
3. $\frac{j}{6 }+4=15$
4. $\frac{j}{8 }-\frac{3}{4 }=\frac{5}{4 }$
5. $10y-(4y+8)=-20$

***Part IV*** Solve each equation check your answer

1. $8r+4=10+2r$
2. 2. $28-0.3y=0.7y-12$
3. 3. $8\left(x+1\right)=4x-8$

***Part V*** 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 VI*** solve each absolute value equation

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