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$\qquad$ Date: $\qquad$

## $8^{\text {th }}$ Grade Quiz Lessons $1.8,1.9,2.7,2.8$

Short Answer: For each of the algebraic equations, solve the equation. Make sure to show all of your work and check your answers.

1. Solve $x+27=23$
2. Solve $-38=6-2 x$
3. Solve $-9+x=41$
4. Solve $108=27-9 x$
5. Solve $x+\frac{11}{12}=\frac{215}{12}$
6. Solve $14 s=238$
7. Solve $-9.4=y-18.2$
8. Solve $9.4 p=47$
9. Solve $\frac{p}{6}=30$
10. Solve $\frac{v}{9}+8=7$
11. Solve $\frac{t}{17.8}=-17.6$
12. Solve $\frac{y-5}{3}=12$
13. Solve $4 x-3=17$
14. Write your equation and solve: In order to rent a rock climbing center, David has to pay an initial fee of $\$ 33$ plus $\$ 22$ per hour for his friends to rock climb. If David only has $\$ 121$, how many hours can David and his friends rock climb?
15. Solve $\frac{7}{10} w=-\frac{1}{14}$

Extra Credit: Showing all work, solve the following:

$$
-4^{2}(-8 x-18)-\left(\frac{1}{3^{-2}}\right)(7 x+12)--78=0
$$

