## EXTRA PRACTICE - Exercises

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## Unit II - First Degree Relations with One Placeholder Part B - Complications on Equations and Inequalities Lesson 3 - Placeholders on Both Sides

Find the solution set for each of the following relations by first getting rid of one of the groups of placeholders by adding the opposite.

1. $4 y-12 \leq 8 y$
2. $9 p-3<11 p+4$
3. $5 x+14=6 x$
4. $5 m-7 m-2<14-6 m+11$
5. $\frac{3}{5} e+11=31-\frac{1}{5} e$
6. $18 y+36>8 y-4$
7. $2.9 v-5=3-0.3 v$
8. $\frac{2}{7} y+15=\frac{6}{7} y+9$
9. $7 x-15-3 x<14-6 x+11$
10. $7-2 n<3 n-3$
11. $2.1 x+3=51.3-1.35 x$
12. $7 y+11=8-5 y$
13. $\frac{3}{4} a-\frac{1}{2}>a+\frac{2}{3}$
14. $\frac{2}{3} r+\frac{5}{2}=\frac{4}{5} r+\frac{7}{6}$
15. $\frac{3}{4} x+11 \geq 31-\frac{1}{5} x$
16. $18 x-14-21 x=17-x+7$
17. $9 x+10-x \leq 2 x+40$
18. $\frac{5}{6} t-\frac{3}{8} t \geq \frac{1}{2} t-2$

# Unit II - First Degree Relations with One Placeholder Part B - Complications on Equations and Inequalities Lesson 3-Placeholders on Both Sides 

Find the solution set for each of the following relations by first getting rid of one of the groups of placeholders by adding the opposite.

1. $\mathrm{S}=\left\{y \mid y \geq^{-} 3\right\}$
2. $\mathrm{S}=\left\{p \left\lvert\, p>\frac{-7}{2}\right.\right\}$
3. $S=\{14\}$
4. $\mathrm{S}=\left\{m \left\lvert\, m<\frac{27}{2}\right.\right\}$
5. $S=\{25\}$
6. $S=\{y \mid y>-4\}$
7. $\mathrm{S}=\left\{\frac{5}{2}\right\}$
8. $S=\left\{\frac{21}{2}\right\}$
9. $S=\{x \mid x<4\}$
10. $S=\left\{\frac{-1}{4}\right\}$
11. $\mathrm{S}=\left\{a \left\lvert\, a<\frac{{ }^{-} 14}{3}\right.\right\}$
12. $S=\{10\}$
13. $\mathrm{S}=\left\{x \left\lvert\, x \geq \frac{400}{19}\right.\right\}$
14. $S=\{-19\}$
15. $\mathrm{S}=\{x \mid x \leq 5\}$
16. $\mathrm{S}=\{n \mid n>2\}$
17. $\mathrm{S}=\{14\}$
$S=\{19\}$
18. $\mathrm{S}=\{t \mid t \leq 48\}$
