

## EXTRA PRACTICE — Exercises

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### Unit II – First Degree Relations with One Placeholder Part B – Complications on Equations and Inequalities Lesson 1 – Grouping Symbols

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Find the solution set for each of the following relations by first using the distributive property to get rid of the grouping symbols..

1.  $-4(5n + 2) = 52$

2.  $0 \geq -19(2m + 5)$

3.  $-3(8x + 4) < 60$

4.  $2(x + 3.1) = 9.8$

5.  $6(7x + 2) = 222$

6.  $\frac{3}{4}(3x + 8) = 15$

7.  $0 < 23(3 - 4t)$

8.  $-12 < 2(3 - x)$

9.  $2(-7x + 6) \leq 348$

10.  $2.4 = 6(n - 1.3)$

11.  $\frac{3}{4} = \frac{2}{3}(x - 15)$

12.  $-3(4 - t) = -12$

13.  $\frac{4}{5}(7x - 6) < 40$

14.  $8(3x - 4) = 80$

15.  $\frac{2}{7}(2m + 21) \geq 18$

16.  $\frac{3(2x - 5)}{4} = 6$

17.  $5(9x + 2) = 145$

18.  $\frac{2}{3}(4x - 3) > 30$

19.  $\frac{2(5 - x)}{3} \leq 8$

20.  $\frac{2}{5}(r - 20) = 12$

# EXTRA PRACTICE — Answer Key

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Find the solution set for each of the following relations by first using the distributive property to get rid of the grouping symbols..

1.  $S = \{-3\}$

2.  $S = \{m \mid m \geq \frac{-5}{2}\}$

3.  $S = \{x \mid x > -3\}$

4.  $S = \{1.8\}$

5.  $S = \{5\}$

6.  $S = \{4\}$

7.  $S = \{t \mid t < \frac{3}{4}\}$

8.  $S = \{x \mid x < 9\}$

9.  $S = \{x \mid x \geq -24\}$

10.  $S = \{1.7\}$

11.  $S = \{\frac{129}{8}\}$

12.  $S = \{0\}$

13.  $S = \{x \mid x < 8\}$

14.  $S = \{\frac{14}{3}\}$

15.  $S = \{m \mid m \geq 21\}$

16.  $S = \{\frac{13}{2}\}$

17.  $S = \{3\}$

18.  $S = \{x \mid x > 12\}$

19.  $S = \{x \mid x \geq -7\}$

20.  $S = \{50\}$