

# EXTRA PRACTICE — Exercises

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## Unit II – First Degree Relations with One Placeholder

### Part A – Basic Equations and Inequalities

#### Lesson 4 – Combinations

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Find the solution set for each of the following open sentences by making the appropriate 0's and 1's.

1.  $6r - 5 = 13$        $S = \{ \quad \quad \quad \}$       2.  $\frac{x-3}{5} = 4$        $S = \{ \quad \quad \quad \}$

3.  $5 - x > 4$        $S = \{ \quad \quad \quad \}$       4.  $3 + \frac{5}{6}k = -2$        $S = \{ \quad \quad \quad \}$

5.  $1 + \frac{a}{b} \geq 0$        $S = \{ \quad \quad \quad \}$       6.  $-2 \geq 14m - 9$        $S = \{ \quad \quad \quad \}$

7.  $.05y + 13 = 28$        $S = \{ \quad \quad \quad \}$       8.  $\frac{y+2}{-3} \leq -1$        $S = \{ \quad \quad \quad \}$

9.  $1 + \frac{2}{5}a < 3$        $S = \{ \quad \quad \quad \}$       10.  $2p + 7 = 19$        $S = \{ \quad \quad \quad \}$

11.  $5 \leq 1.2x - 1$        $S = \{ \quad \quad \quad \}$       12.  $5x - \frac{1}{12} = \frac{4}{12}$        $S = \{ \quad \quad \quad \}$

13.  $2 - 3y = -1$        $S = \{ \quad \quad \quad \}$       14.  $0 \leq 5 + \frac{m}{2}$        $S = \{ \quad \quad \quad \}$

15.  $1 - 5n = 11$        $S = \{ \quad \quad \quad \}$       16.  $-11 > \frac{-3f}{4} + 1$        $S = \{ \quad \quad \quad \}$

17.  $23 \leq 11 - 6w$        $S = \{ \quad \quad \quad \}$       18.  $-1 \leq 2w + 5$        $S = \{ \quad \quad \quad \}$

# EXTRA PRACTICE — Answer Key

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Find the solution set for each of the following open sentences by making the appropriate 0's and 1's.

1.  $S = \{3\}$

2.  $S = \{23\}$

3.  $S = \{x \mid x < 1\}$

4.  $S = \{-6\}$

5.  $S = \{a \mid a \geq -6\}$

6.  $S = \{m \mid m \leq \frac{1}{2}\}$

7.  $S = \{300\}$

8.  $S = \{y \mid y \geq 1\}$

9.  $S = \{a \mid a < 5\}$

10.  $S = \{6\}$

11.  $S = \{x \mid x \geq 5\}$

12.  $S = \{\frac{1}{12}\}$

13.  $S = \{1\}$

14.  $S = \{m \mid m \geq -10\}$

15.  $S = \{-2\}$

16.  $S = \{f \mid f > 16\}$

17.  $S = \{w \mid w \leq -2\}$

18.  $S = \{w \mid w \geq -3\}$

19.  $S = \{x \mid x \leq \frac{19}{2}\}$