

EXTRA PRACTICE — Exercises

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Unit II – First Degree Relations with One Placeholder

Part A – Basic Equations and Inequalities

Lesson 4 – Combinations

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. $1 + \frac{a}{6} \geq 0$ $S = \{ \quad \quad \quad \}$ 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. $S = \{x \mid x \leq \frac{19}{2}\}$