

# EXTRA PRACTICE — Exercises

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## Unit II – First Degree Relations with One Placeholder

### Part A – Basic Equations and Inequalities

### Lesson 3 – Second Type - Making Ones (page 1)

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Find the solution set for each of the following open sentences and show it using set notation or a number line.

1.  $\frac{-7}{8} > -56t$        $S = \{ \quad \quad \}$



2.  $12x = -36$        $S = \{ \quad \quad \}$



3.  $5y \geq -2$        $S = \{ \quad \quad \}$



4.  $\frac{m}{3} = 5$        $S = \{ \quad \quad \}$



5.  $\frac{2}{-3}x = -12$        $S = \{ \quad \quad \}$



6.  $\frac{-3}{2}x \geq 0$        $S = \{ \quad \quad \}$



7.  $-5y > -23$        $S = \{ \quad \quad \}$



8.  $\frac{-6}{5} \leq -4x$        $S = \{ \quad \quad \}$




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## Unit II, Part A, Lesson 3 (Page 2)

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9.  $\frac{-3v}{11} = 6$        $S = \{ \quad \quad \quad \}$       

10.  $-\frac{r}{6} = 9$        $S = \{ \quad \quad \quad \}$       

11.  $-4x \leq \frac{1}{9}$        $S = \{ \quad \quad \quad \}$       

12.  $-6y = -42$        $S = \{ \quad \quad \quad \}$       

13.  $42 = -7k$        $S = \{ \quad \quad \quad \}$       

14.  $-2y > \frac{1}{7}$        $S = \{ \quad \quad \quad \}$       

15.  $-7x < -21$        $S = \{ \quad \quad \quad \}$       

16.  $-3 = \frac{5}{6}m$        $S = \{ \quad \quad \quad \}$       

# EXTRA PRACTICE — Answer Key

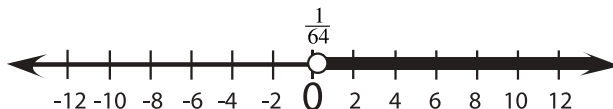
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## Unit II – First Degree Relations with One Placeholder Part A – Basic Equations and Inequalities Lesson 3 – Second Type - Making Ones (page 1)

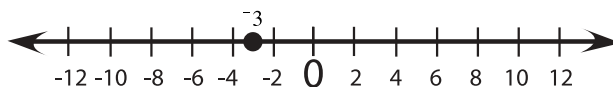
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Find the solution set for each of the following open sentences and show it using set notation or a number line.

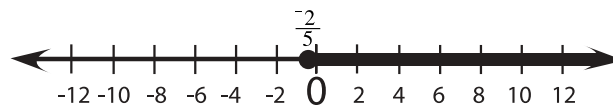
1.  $S = \{t \mid t > \frac{1}{64}\}$



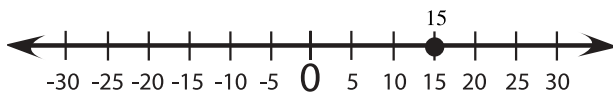
2.  $S = \{-3\}$



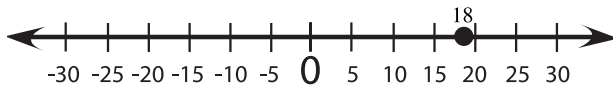
3.  $S = \{y \mid y \geq \frac{-2}{5}\}$



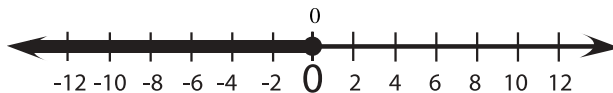
4.  $S = \{15\}$



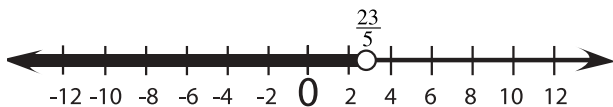
5.  $S = \{18\}$



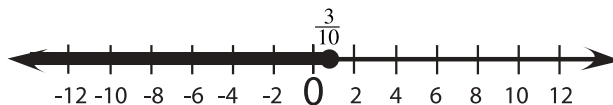
6.  $S = \{x \mid x \leq 0\}$



7.  $S = \{y \mid y < \frac{23}{5}\}$



8.  $S = \{x \mid x \leq \frac{3}{10}\}$



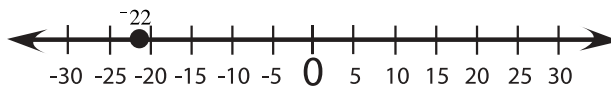
# EXTRA PRACTICE — Answer Key

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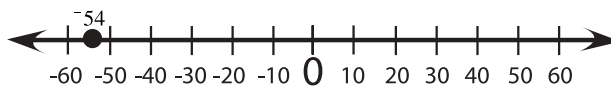
## Unit II, Part A, Lesson 3 (page 2)

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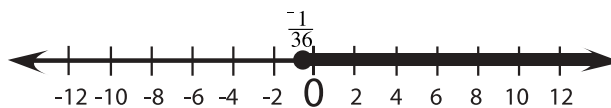
9.  $S = \{-22\}$



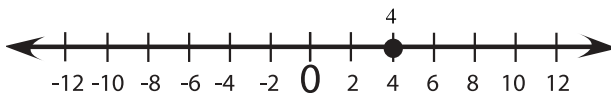
10.  $S = \{-54\}$



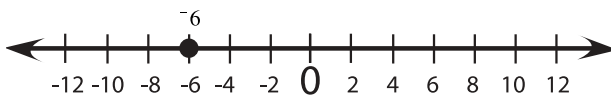
11.  $S = \{x \mid x \geq \frac{-1}{36}\}$



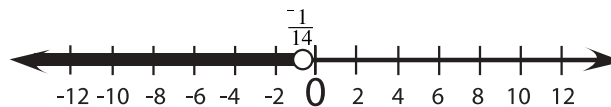
12.  $S = \{4\}$



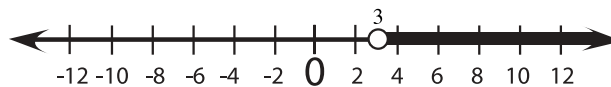
13.  $S = \{-6\}$



14.  $S = \{y \mid y < \frac{-1}{14}\}$



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



16.  $S = \{\frac{-18}{5}\}$

