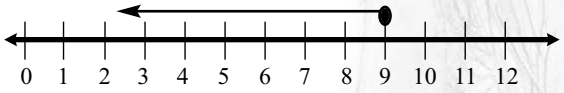
# ACTIVITY ANSWER KEY

## Chapter 4, Section 2

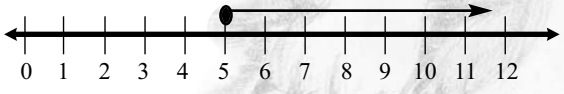
**Check your answers from the Answer Key.**
**Correct all errors, then complete your next goal.**

### Lesson 6: *Inequalities*
*More of Less, Equal or Greater*

**1.** equality
**2.** or
**3.** equal
**4.** Common sense
**5.** same
**6.** same
**7.** ≥
**8.** 4; $4x \div 4 \geq 8 \div 4$
**9.** 2
**10.** greater
**11.** ≤
**12.** 6; $7x + 6 - 6 \leq 55 - 6$
**13.** divided; $7x \div 7 \leq 49 \div 7$
**14.** left
**15.** Jose
**16.** John's
**17.** later
**18.** greater
**19.** 50
**20.** 60
**21.**



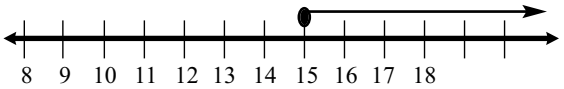

**22.**




**23.**




**24.**




**25.** *"The greater the problem, the greater the opportunity for success."*

### Lesson 7: *Inequalities*
*Special Rule; Inequalities*

**1.** special
**2.** war
**3.** equality
**4.** same
**5.** negative, reversed
**6.** negative three times a number is *greater than or equal to* twelve
**7.** -3
**8.** 0
**9.** incorrect
**10.** reversed
**11.** original
**12.** reversed
**13.** 3
**14.** divides, -8
**15.** changed (or reversed)
**16.** 0
**17.** 4
**18.** multiplied
**19.** divides
**20.** $x < -6$
**21.** $x > -6$
**22.** $x < -7$
**23.** $x \geq -18$
**24.** (d) $x < -16$
**25.** (b) $x < 4$
**26.** $x < -2$

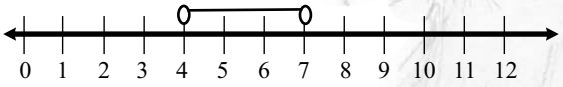


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**27.** $x > -4$
**28.** $x < -8$
**29.** $x \leq -2$
**30.** *"Great men are willing to change as needed to accomplish their goals."*

## Lesson 8: *Inequalities*
*Intervals*

**1.** less
**2.** interval
**3.** interval
**4.** (a) open
**5.** (a) open
**6.** (c) half-open
**7.** (c) half-open
**8.** open
**9.** closed
**10.**




**11.**




**12.**




**13.**




**14.**




**15.** open
**16.** half-open
**17.** closed
**18.** open
**19.** half-open
**20.** closed
**21.** half-open
**22.** half-open
**23.** half-open
**24.** closed
**25.** *"Life is the interval between birth and death. Make it count for something."*

## Lesson 9: *Inequalities*
*Set Builders*

**1.** curly brackets
**2.** set
**3.** set-builder, interval
**4.** curly
**5.** $\{x \mid 2 \leq x \leq 3\}$
**6.** all $x$ such that $x$ is *less than or equal to* ten.
**7.** $\{x \mid 4 \leq x < 7\}$
**8.** set-builder
**9.** Set-builder
**10.** $\{x \mid 5 < x < 9\}$
**11.** $\{x \mid x < 3\}$
**12.** $\{x \mid 2 \leq x \leq 5\}$
**13.** all $x$ such that fifteen is greater than $x$ and $x$ is greater than negative five
**14.** $\{x \mid -2 < x < 8\}$
**15.** all $x$ such that five is *less than or equal to* $x$ and $x$ is *less than or equal to* fifty
**16.** $\{x \mid -6 < x \leq 6\}$
**17.** $\{x \mid x < 1\}$
**18.** $\{x \mid -2 < x \leq 1\}$
**19.** $\{x \mid -2 \leq x \leq 1\}$
**20.** $\{x \mid x > -1\}$
**21.** (d) $\{x \mid x \geq 5\}$
**22.** $\{x \mid -16 \leq x \leq 20\}$
**23.** $\{x \mid x < 7\}$
**24.** (d) $\{x \mid -2 \leq x < 2\}$
**25.** *"A wise man builds on a firm foundation."*


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**Lesson 10: *Inequalities***
*Interval Notation*

**1.** curly
**2.** square brackets
**3.** set-builder, interval
**4.** inequality
**5.** $(5, \infty)$
**6.** $\{x \mid 2 \leq x \leq 3\}$
**7.** all $x$, such that, $x$ is *less than or equal to* ten
**8.** $\{x \mid 4 \leq x < 7\}$
**9.** $[4, 7)$
**10.** figure 8
**11.** $-\infty$
**12.** set-builder
**13.** interval
**14.** $\{x \mid 5 < x < 9\}$
**15.** $(-\infty, 3)$
**16.** $\{x \mid 2 \leq x \leq 5\}$, $[2, 5]$
**17.** $[2, 6)$
**18.** all $x$, such that, fifteen is greater than $x$ and $x$ is greater than negative five
**19.** $\{x \mid -2 < x < 8\}$
**20.** all $x$, such that, five is *less than or equal to* $x$ and $x$ is *less than or equal to* fifty
**21.** $(6, -6]$
**22.** $(-\infty, 1]$
**23.** $(-2, 1]$
**24.** $[-2, 1]$
**25.** $(-1, \infty)$
**26.** $[5, \infty)$
**27.** $[-16, 20]$
**28.** (a) $(-\infty, 7)$
**29.** (d) $(-2, 2]$
**30.** "*Morality consists of drawing behavioral lines we refuse to cross.*"

Ask for your QUIZ over Section 2.
**Reminder:** Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!


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