pg. 89 (11-23)
11.


$$
\begin{aligned}
& x \leq-2 \sigma x \geq 7 \\
& -2 \geq x
\end{aligned}
$$

$$
-8<0 \leq-1
$$

13. 


14.

$x<9$ OR $x>11$
15.

$x \leq 0$ OR $x \geq 2$
17. Biology An iguana needs to live in a warm environment. The temperature in a pet iguana's cage should be between $70^{\circ} \mathrm{F}$ and $95^{\circ} \mathrm{F}$, inclusive.

$70 \leq \boldsymbol{t} \leq 95$
18. Meteorology One layer of Earth's atmosphere is called the stratosphere. At one point above Earth's surface, the stratosphere extends from an altitude of 16 kilometers to an altitude of 50 kilometers.
$16 \leq k \leq 50$

19. Music A typical acoustic guitar has a range of three octaves. When the guitar is tuned to "concert pitch," the range of frequencies for those three octaves is between 82.4 Hertz and 659.2 Hertz inclusive.

$\mathbf{8 2 . 4} \leq \boldsymbol{f} \leq \mathbf{6 5 9 . 2}$
20. Transportation The cruise-control function on Georgina's car should keep the speed of the car within 3 miles per hour of the set speed. The set speed is 55 miles per hour.

$52 \leq s \leq 58$
21. Chemistry Water is not a liquid if its temperature is above $100^{\circ} \mathrm{C}$ or below $0^{\circ} \mathrm{C}$.

22. Sports The ball used in a soccer game may not weigh more than 16 ounces or less than 14 ounces at the start of the match. After 1.5 ounces of air were added to a ball.
_ the ball was approved for use in a game.

23. Match the compound inequalities with the graphs of their solutions.
A. $-26<6 x-8<16$

$$
-18<6 x<24
$$

$$
-3<x<4
$$

B. $-\frac{1}{3} \leq \frac{x+2}{3} \leq 2$
$-1 \leq x+2 \leq 6$
$-3 \leq x \leq 4$
C. $4 x+1<-11$ OR $\frac{x}{2}-5>-3$

$$
4 x<-12 \quad \frac{x}{2}>2
$$

$$
x<-3 \quad x>4
$$

$\begin{array}{cc}\text { D. } \frac{x-6}{3} \leq-3 \text { OR } & 2 x+8 \geq 16 \\ x^{3}-6 & \leq-9 \\ x & 2 x \geq 8 \\ x & x\end{array}$
Module 2

$$
x \leq-3 \quad x \geq 4
$$

C


## A


$\square$


B


90

Return of the Quizzes

Solve ad grph

$$
\begin{gathered}
8\left(\frac{1}{4} x-3\right)+24<4(x+5) \\
2 x<4 x+20 \\
-2 x<20 \quad-10<x \\
x>-10
\end{gathered}
$$



Solve the inequality.

$$
\begin{gathered}
2(3 y-2)-4 \geq 3(2 y+7) \\
6 y-8 \geq 6 y+21 \\
-8 \geq 21 \\
\text { Mo soluthos }
\end{gathered}
$$

## 1. Solve \& Graph: $-10<\frac{-5(x+2)}{-3}$

2. Write a compound inequality:

3. Write a compound inequality:


# Correct Old Homework 

## Pg. 78

## Review Sheet

## Key will be on my website

