EXERCISE A

SECTION A-2

Solve each inequality. Then graph the solution set on the number line

1) a + 2 < 3.5 2) $11 - c \le 8$ 3) 2w + 19 < 5

4)
$$4y + 7 > 31$$
 5) $n \le \frac{n-4}{5}$ 6) $5y + 7 \ge 3y - 17$

7)
$$6(b+1) - (3b-5) > 2$$
 8) $-\frac{2}{3}x \ge -10$ 9) $\frac{1}{5} < \frac{7x}{3} + \frac{4}{15}$

Write the solution set that would represent the graphs shown.



EXERCISE B

Solve each inequality. Then graph the solution set on the number line.

 $13) \quad 14 - 8n \le 0 \qquad \qquad 14) \quad -4(5w - 8) < 33 \qquad \qquad 15) \quad 0.02x + 5.58 < 0$

16)
$$6d + 3 \ge 5d - 2$$
 17) $2(g + 4) < 3g - 2(g - 5)$ 18) $y < \frac{-y + 2}{9}$

19)
$$\frac{4x+2}{6} < \frac{2x+1}{3}$$
 20) $12\left(\frac{1}{4} - \frac{n}{3}\right) \le -6n$ 21) $\frac{1}{12} < \frac{7x}{3} + \frac{5}{6}$

Write the solution set that would represent the graphs shown.



EXERCISE C

Write the solution set that would represent the graphs shown.



26) Mr. Slick earns a salary of \$34,000 per year plus 1.5% commission on his sales. If the average price of a car she sells is \$30,500, about how many cars must she sell each year to make an annual income of at least \$50,000?

a) Write an inequality to describe the situation.

b) Solve the inequality and interpret the solution.



ANSWERS:

See Mr. Paull for all	5
number line graphs.	7
1) a < 1.5	9
3) w < -7	1

5) $n \le -1$ 7) b > -39) x > -1/3511) n < 14 13) $n \ge 1.75$ 15) x < -27917) g < 219) no solution

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 $\begin{array}{ll} 21) & x > -9/28 \\ 23) & n < -13 \\ 25) & 10 \leq n \leq 12 \end{array}$