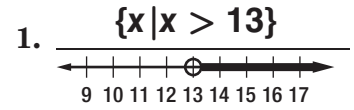


5 Chapter 5 Test, Form 2C

SCORE _____

1. Solve $x - 12 > 1$. Then graph your solution on a number line.



Solve each inequality.

2. $7 + z < 3$

2. $\{z | z < -4\}$

3. $\frac{b}{8} > -\frac{1}{5}$

3. $\{b | b > -1\frac{3}{5}\}$

4. $\frac{t}{6} \geq 14$

4. $\{t | t \geq 84\}$

5. $-19.8 \geq 3.6y$

5. $\{y | y \leq -5.5\}$

6. $-4r < 22$

6. $\{r | r > -5.5\}$

7. $4x - 5 < 2x + 11$

7. $\{x | x < 8\}$

8. $5(p + 2) - 2(p - 1) \geq 7p + 4$

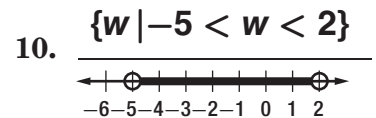
8. $\{p | p \leq 2\}$

9. $1.3(c - 4) \leq 2.6 + 0.7c$

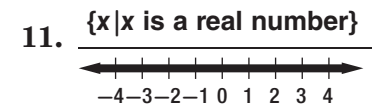
9. $\{c | c \leq 13\}$

Solve each compound inequality. Then graph the solution set.

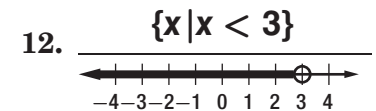
10. $3w < 6$ and $-5 < w$



11. $-4 \leq n$ or $3n + 1 < -2$

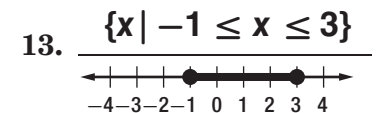


12. $-4x - 8 \geq -4$ or $7x - 5 < 16$

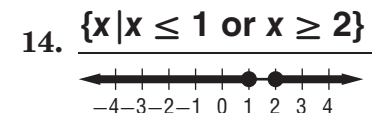


For Questions 13 and 14, solve each inequality. Then graph the solution set.

13. $|1 - x| \leq 2$



14. $|3 - 2x| \geq 1$



5 Chapter 5 Test, Form 2C *(continued)*

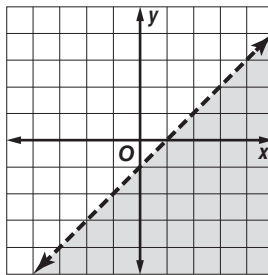
15. Solve $|8x + 2| < 14$.

16. Ian has \$6000. He wants to buy a car within \$1500 of this amount. Define a variable, write an open sentence, and find the range of car prices.

17. Graph $y > -\frac{1}{3}x + 2$.

18. Use a graph to solve $2x - 3y \leq 6$.

19. What inequality has the solution set shown in the graph?



20. **EXPENSES** Camille has no more than \$20.00 to spend each week for lunch and bus fare. Lunch costs \$3.00 each day, and bus fare is \$0.75 each ride. Write an inequality for this situation. Can Camille buy lunch 5 times and ride the bus 8 times in one week?

Bonus Graph the solution set of the compound inequality

$$3 < |x - 4| < 7.$$

15. $\{x \mid -2 < x < 1.5\}$

Sample answer:

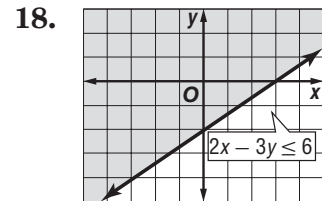
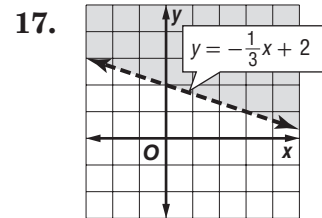
$x =$ car price;

$$|6000 - x| \leq 1500;$$

$$\{x \mid 4500 \leq x \leq 7500\}; \text{ from}$$

\$4500 to \$7500

16. _____



19. $y < x - 1$

20. $3x + 0.75y \leq 20$;
No, the cost
would be more
than \$20.00.

