

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. Find the additive inverse of  $\frac{3}{5}$ .

2. Let  $x \in \{-5, 0, 7\}$ . For which values of  $x$  is  $x < 4$  true?

3. Let  $x \in \{-5, -2, 4\}$ . For which values of  $x$  is  $x < -2$  true?

4. Let  $b \in \{-6, 0, 4\}$ . Evaluate  $-b$  for each element of the set.

5. Use the roster method to write the set of integers between  $-4$  and  $4$ .

6. Use set-builder notation to write the set of real numbers between  $-10$  and  $11$ .

7. Find  $A \cup B$ .

$$A = \{22, 23, 24\}; B = \{24, 25, 26\}$$

8. Find  $A \cap B$ .

$$A = \{12, 13, 14\}; B = \{14, 15, 16\}$$

13. Simplify:  
 $4(8)-6$

12. Graph  $(-3,3] \cup [-1,4)$ .



11. Graph  $\{x|x \leq 1\} \cap \{x|x > 0\}$ .



10. Graph  $\{x|x < 0\}$ .



9. Find  $A \cap B$  for  $A = \{12, 24, 36\}$ ,  $B = \{6, 12, 18\}$ .

