

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

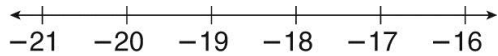
Hour: \_\_\_\_\_

## II-4 Practice B

### Solving Inequalities by Multiplying or Dividing

Solve and graph.

1.  $\frac{m}{-5} \leq 4$



2.  $-16 < -8n$



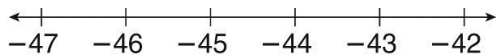
3.  $7p \geq 49$



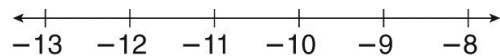
4.  $10 > \frac{q}{2}$



5.  $-\frac{r}{3} \leq 15$



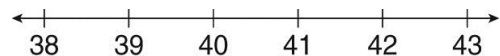
6.  $22 > -2s$



7.  $-6t < -24$



8.  $\frac{v}{20} \geq 2$



9. On a snorkeling trip, Antonia dove at least 7 times as deep as Lucy did. If Antonia dove 35 feet below the ocean's surface, what was the deepest that Lucy dove?

10. Last week, Saul ran more than one-fifth the distance that his friend Omar ran. If Saul ran 14 miles last week, how far did Omar run?

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

Hour: \_\_\_\_\_

## II-4 Problem Solving

### Solving Inequalities by Multiplying or Dividing

#### Write the correct answer

1. A bottle contains at least 4 times as much juice as a glass contains. The bottle contains 32 fluid ounces. Write an inequality that shows this relationship.
2. Solve the inequality in Exercise 1. What is the greatest amount the glass could contain?
3. In the triple jump, Katrina jumped less than one-third the distance that Paula jumped. Katrina jumped 5 ft 6 in. Write an inequality that shows this relationship.
4. Solve the inequality in Exercise 3. How far could Paula have jumped?

#### Choose the letter for the best answer.

5. Melinda earned at least 3 times as much money this month as last month. She earned \$567 this month. Which inequality shows this relationship?  

<b>A</b> $567 < x$	<b>C</b> $567 > 3x$
<b>B</b> $567 < 3x$	<b>D</b> $567 \geq 3x$
6. The shallow end of a pool is less than one-quarter as deep as the deep end. The shallow end is 3 feet deep. Which inequality shows this relationship?  

<b>F</b> $4 > 3x$	<b>H</b> $\frac{x}{4} > 3$
<b>G</b> $4x < 3$	<b>J</b> $\frac{x}{4} < 3$
7. Arthur worked in the garden more than half as long as his brother. Arthur worked 6 hours in the garden. How long did his brother work in the garden?  

<b>A</b> less than 3 hours
<b>B</b> 3 hours
<b>C</b> less than 12 hours
<b>D</b> more than 12 hours
8. The distance from Bill's house to the library is no more than 5 times the distance from his house to the park. If Bill's house is 10 miles from the library, what is the distance from his house to the park?  

<b>F</b> 2 miles
<b>G</b> more than 2 miles
<b>H</b> 20 miles
<b>J</b> less than 20 miles