

3-3 ELL Support

Solving Inequalities Using Multiplication or Division

Use the list below to complete the Venn diagram.

<p>If $a < b$ and $c > 0$, then $ac < bc$. If $a > b$ and $c > 0$, then $ac > bc$.</p>	<p>If $a < b$ and $c < 0$, then $\frac{a}{c} > \frac{b}{c}$. If $a > b$ and $c < 0$, then $\frac{a}{c} < \frac{b}{c}$.</p>	<p>Use inverse operations to solve.</p>
<p>If $a < b$ and $c < 0$, then $ac > bc$. If $a > b$ and $c < 0$, then $ac < bc$.</p>	<p>If you multiply or divide both sides of an inequality by a negative number, you need to reverse the inequality symbol to make the inequality true.</p>	<p>If $a < b$ and $c > 0$, then $\frac{a}{c} < \frac{b}{c}$. If $a > b$ and $c > 0$, then $\frac{a}{c} > \frac{b}{c}$.</p>

