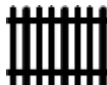





















# INEQUALITIES FROM WORD PROBLEMS B2

WORD PROBLEM	INEQUALITY
1) A farmer has a maximum of 50 yards of fencing to make a rectangular enclosure. <i>If his field has length <math>l</math> and width <math>w</math>, write an inequality in terms of <math>l</math> and <math>w</math> to show what size field he can make.</i>	
2) It take Frazer a maximum time of 1 hour 30 minutes to fully charge his phone. <i>Write an inequality to show the time in hours (<math>t</math>) it will take him to charge his phone <math>n</math> times.</i>	
3) Quadra spends at least 40% of her income after tax on rent and bills. <i>Write an inequality showing her remaining money (<math>r</math>) in terms of her income (<math>i</math>).</i>	
4) A two-liter bottle can fill a minimum of 8 cups. If I buy $b$ two-liter bottles, write an inequality to show how many cups ( $c$ ) I can fill in terms of the number of bottles ( $b$ ).	
5) Sally reads $c$ chapters from her book each day. Each chapter is more than 15 pages long. <i>Write an inequality to show how many pages (<math>p</math>) she reads each day in terms of <math>c</math>.</i>	
6) Newton's best time for swimming a length in a pool is 27 seconds. <i>Write an inequality to show the time it takes (<math>t</math>) for him to swim <math>l</math> lengths.</i>	
7) In a hotel there are $f$ flights of stairs. Each flight has at least 12 steps. <i>Write an expression for the total number of steps, <math>t</math>, in terms of <math>f</math>.</i>	
8) Frazer is reading a Harry Potter book. He can read a maximum speed of just under 36 pages in an hour. <i>Write an inequality for how many pages (<math>p</math>) Frazer can read in <math>h</math> hours.</i>	
9) Captain drives along at a maximum speed of 60 miles per hour. <i>Write an inequality to show how many miles (<math>m</math>) he will have driven after <math>h</math> hours?</i>	



# INEQUALITIES FROM WORD PROBLEMS B2 ANSWERS

	WORD PROBLEM	INEQUALITY
1)	<p>A farmer has a maximum of 50 yards of fencing to make a rectangular enclosure. If his field has length <math>l</math> and width <math>w</math>, write an inequality in terms of <math>l</math> and <math>w</math> to show what size field he can make.</p>	 $2l + 2w \leq 50$ <p>or</p> $l + w \leq 25$
2)	<p>It take Frazer a maximum time of 1 hour 30 minutes to fully charge his phone. Write an inequality to show the time in hours (<math>t</math>) it will take him to charge his phone <math>n</math> times.</p>	 $t \leq 1.5n$
3)	<p>Quadra spends at least 40% of her income after tax on rent and bills. Write an inequality showing her remaining money (<math>r</math>) in terms of her income (<math>i</math>).</p>	 $r \leq 60\% \text{ of } i$ <p>or</p> $r \leq 0.6i$
4)	<p>A two-liter bottle can fill a minimum of 8 cups. If I buy <math>b</math> two-liter bottles, write an inequality to show how many cups (<math>c</math>) I can fill in terms of the number of bottles (<math>b</math>).</p>	 $c \geq 8b$
5)	<p>Sally reads <math>c</math> chapters from her book each day. Each chapter is more than 15 pages long. Write an inequality to show how many pages (<math>p</math>) she reads each day in terms of <math>c</math>.</p>	 $p > 15c$
6)	<p>Newton's best time for swimming a length in a pool is 27 seconds. Write an inequality to show the time it takes (<math>t</math>) for him to swim <math>l</math> lengths.</p>	 $t \leq 27l$ <p>seconds</p>
7)	<p>In a hotel there are <math>f</math> flights of stairs. Each flight has at least 12 steps. Write an expression for the total number of steps, <math>t</math>, in terms of <math>f</math>.</p>	 $t \geq 12f$
8)	<p>Frazer is reading a Harry Potter book. He can read a maximum speed of just under 36 pages in an hour. Write an inequality for how many pages (<math>p</math>) Frazer can read in <math>h</math> hours.</p>	 $p < 36h$
9)	<p>Captain drives along at a maximum speed of 60 miles per hour. Write an inequality to show how many miles (<math>m</math>) he will have driven after <math>h</math> hours?</p>	 $m \leq 60h$