

Linear Inequalities Final Exam Review - Key

Representing Inequalities



x is less than 38 and greater than 28



y is greater than or equal to 20.

b) $x > 7$

$x \geq 16$ and $x \leq 24$

c) $d \geq 300$ km

$y > 4$ days

d) The student must score higher than 80. $m > 80$.

Solving Single Step Inequalities

a) $x \geq 66$ $x \geq -320$ $x < 150$ $x > 6.25$

b) $x \leq 30$ \therefore the solution is correct $x > 4$ \therefore the solution is incorrect.

c) $x \leq 40$ They can buy a maximum of 40 parts.

d) $x > 700$ The monthly rate is better if more than 700 pages are printed.

Solving Multi-Step Inequalities

a) $x < 11$

b) $y \leq \frac{36}{5}$ $y \leq \frac{-21}{143}$

c) $x \geq 8$ \therefore the solution is correct.

d) $x < 200$ The second plan is better if fewer than 200 texts are sent.

e) $x > 14.6$ The member's plan is the better option if 15 or more channels are ordered.