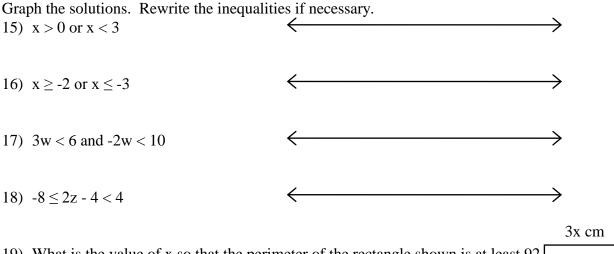
Solving Inequalities Self-Test Name SOL'S covered: A.5abc 1) Solve: x + 3 < 12b) x < 15 c) x < 9 d) x > -9a) x > -15 e) none of these 2) Translate the word sentence into an inequality: "A number is greater than 5." b) x + 5 a) x - 5 c) x > 5d) x < 5 e) none of these 3) Solve: $\frac{1}{2}x > 2$ a) x > -2 b) x < -2 c) x > 4 d) x < -4e) none of these 4) Solve: $\frac{-x}{4} > 8$ a) x > -2 b) x < -2 c) x > -32 d) x < -32 e) none of these 5) Solve: 2x + 2 > 4a) x > 4b) x < 4 c) x > 1 d) x < 1e) none of these Solve each of the following. SHOW ALL OF YOUR WORK!!! 7) -81 > 16 + q8) 12x < -144 6) $n + 5 \ge 32$ 11) $\frac{-3}{5}f > \frac{-4}{15}$ 10) $\frac{a}{-10} \le -2$ 9) -13d < -65 13) $\frac{r}{8} - 5 \le -12$ 14) 3(5x+2) - 7x < 3812) $3r - 5 \le 7$



19) What is the value of x so that the perimeter of the rectangle shown is at least 92 centimeters? (4+x) cm

20) Ms. Salgado needs to have her car repaired but does not want to spend more than \$225 for the repairs. The mechanic says that the part needed for the repair will cost \$78, and that labor will cost an additional \$35 per hour. Which inequality below represents the greatest number of hours the mechanic can work without exceeding Ms. Salgado's budget?

a) 225 - 35x < 78 b) $113x \le 225$ c) $35 + 78x \le 225$ d) $35x + 78 \le 225$