1. $|3x - 7| > 11$

$3x-7 < -11$ or $3x-7 > 11$

$3x < -4$ $\quad 3x > 18$

$x < -\frac{4}{3}$ or $x > 6$

2. $|2x + 3| = 5$

$2x+3=5$

$-3 \quad -3$

$x = 1$

$2x+3=-5$

$-3 \quad -3$

$2x = -8$

$x = -4$ $\quad x = 1, -4$

$x = 1, x = -4$

3. $|5x + 6| + 3 \leq 27$

$-3 \quad -3$

$|5x+6| \leq 24$

$-24 \leq 5x+6 \leq 24$

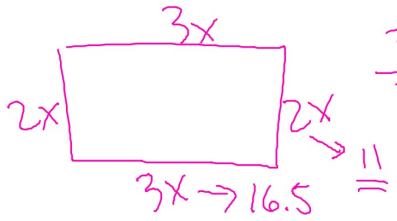
$-6 \quad -6 \quad -6$

$-30 \leq 5x \leq 18$

$\div 5$

$-6 \leq x \leq 3.6$

4. The sides of a rectangle are in the ratio 3:2. If the perimeter of the recangle is 55cm, then find the dimensions of the rectangle.



$\frac{3x}{2x} = \frac{3}{2}$

$11 =$

Perimeter → $55 = 3x + 2x + 3x + 2x$

$55 = 10x$

$5.5 = x$

16.5 x 11