

T3-06 Number _____ Name _____ Period _____ Score _____

Solve the following inequalities, graph your solution on a number line. You will need to draw your own number line.

1) $-2(2x - 3) \geq -10$

2) $3x + 8 < 44$

3) $\frac{1}{4}x - \frac{2}{3} \leq \frac{3}{4}$

4) $-\frac{1}{5}x + \frac{2}{3} > \frac{3}{5}$

5) Sam is saving money for a car. He has \$2500 already saved. If he can save \$300 per month. How many months will he have to save so that he has **at least** \$7000.

6) Given $m\angle ABC = 35^\circ$
a) Find its compliment

b) Find its supplement

Factor the following expressions

7) $24x - 64$

8) $12x + 18$

9) Find the volume of a **cube** whose side lengths are 5cm long.