1. **Solve each equation and verify the solution (1 step)**

a) 

b) 

c) 

d) 

1. **Solve each equation and verify the solution. (2 step)**

a) 

b) 

c) 

d) 

e) 

1. **Solve each equation and verify the solution. (multi step)**

a) 

b) 

c) 

d) 

e) 

f) 

g) 

h) 

i) 

j

1. **Solve each equation and verify the solution. (hard)**

a)

b)(2*x* – 3) = (3*x* + 1)

c) 

1. **A taxicab charges $2.50, plus $1.78 per kilometre. How long is a trip that costs $21.19?**
2. **The sum of three times a number, plus five is equal to seven less than seven times the number. Write an equation to model this situation. Solve the equation to determine the number. Verify the solution.**

Inequalities
3. **State 3 values of the variable that satisfy each inequality.**

a) c < 7 b) 

c) 5 < n d) 

1. **Write the inequality that is graphed on each number line.**

a)



b)



c)



d)



1. **Write an inequality to describe each situation, then graph it.**

a) The gas tank in a car contains no more than 55 L of gas. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



1. The minimum age you must be to watch the movie is 13. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



1. **Match each inequality with the graph of its solution.**

a) b)  c)  d) 

 i)

****

 ii)



 iii)



1. 
2. **Solve, then graph each inequality.**

a) 



b) 



c) 

1. **Solve each inequality and graph the solution.**

a) 



b) 



c) 



d) 



1. **Nadia gets paid $1000 per month plus 5% commission on her sales. She wants to earn at least $2200 this month. Write an inequality to represent this situation, then solve it to determine how much Nadia must sell to reach her goal.**
2. **Christine wants to go to the fair. Admission costs $4.50 and each ride costs another $1.25.
Christine wants to spend no more than $25.00. How many rides can she go on?**
a) Select a variable and use an inequality to model this problem.

b) Solve the inequality. Explain the solution in words.

c) Verify the solution.