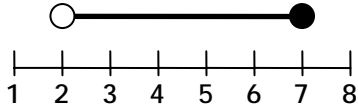


INEQUALITIES

Name: _____

Assessment Criteria: Solve inequalities in one variable and represent the solution set on a number line

1. What inequality is represented on this number line?



2. Solve the following inequalities:

a) $3v + 6 \geq 21$

b) $4s - 7 < -19$

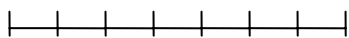
c) $2(d + 8) \leq 17$

d) $3 - 2x > 7$

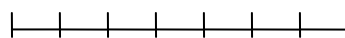
e) $2(x - 4) < 7(x - 3)$

3. For each of your solutions in question 2, show the solution set on the number lines below.

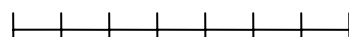
a)



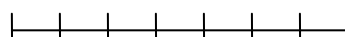
b)



c)



d)



4. How many common integer solutions are there to the following pair of inequalities?

$$2x + 1 > 9 \quad \text{and} \quad 3x - 5 < 16$$

Overall, I think my success level is:

Low High

Q	INEQUALITIES	😊	☹
	I can represent an inequality on a number line		
	I can solve a simple linear inequality in one variable		
	I can solve a linear inequality with unknowns on both sides		
	I can solve a linear inequality involving brackets		
	I can solve a linear inequality which involves multiplying or dividing by a negative number		
	<i>I can solve increasingly demanding problems and evaluate solutions</i>		

I need to practise ...