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Algebral Bagebral Notes Section 14 Write Equations and InequalitiesBig Ideas1. How to determine an equation from an inequality.4. How to substitute numbers for the variables and solve to find solutions for equations and inequalities.3. How to use verbal phrases associated with an equal sign and with each type of inequality symbol to determine whether to write and equation or an inequality.		
Inequality	2 expressions with an INEQUALITY sign between	
Open Sentence	An equation/inequality that contains an expression	
<u>Inequality Symb</u> I. Is less than II. Is less than of III. Is greater tha IV. Is greater tha	r equal to n n or equal to	
EXAMPLE 1	Vrite an equation or inequality.	
a) The differenc	e of twice a number k and 8 is 12	
b) The product (of 6 and a number n is at least 24	
c) A number y is	no less than 5 and no more than 13	

EXAMPLE 2	Check whether 3 is a solution of the equation or inequality.
a) 8 - 2x = 2	
b) 4x - 5 = 6	
c) 2z + 5>12	
d) 5 + 3n ≤ 20	
<u>EXAMPLE 3</u> a) x+4=10	Solve using mental math.
b) 20 - y = 8	
c) 6n = 42	
d) a/5 = 9	
EXAMPLE 4	The last time you and 3 friends went to a mountain bike park, you had a coupon for \$10 off and paid \$17 for 4 tickets. What is the regular price of 4 tickets? If you pay the regular price this time an dshare it equally, how much does each person pay?
EXAMPLE 5	A basketball player scored 351 points last year. If the player plays 18 games this year, will an average of 20 points per game be enough to beat last year's total?