Warmp Solve for y, graph and shade 1)4x - 3y > 15-4x -3y > 15 -4x -3y > 15 - 4x y <-5 + $\frac{4}{3}x$ 2) $X + 3y \ge 12$ \$y≥-x+12 3 3 $\geq -\frac{1}{3} \times +4$ $X - 5y \ge 20$ 2x + 7y >14 -44 V -5124×120 K -5 -5 -5 7 X <u>4</u> - 4 2x+7 ·y>/4 $\widehat{}$ AY X +14 7 7 +++₹X +2 $-\frac{1}{14} - \frac{8}{4} - \frac{64}{14}$ +14x $-84 \leq 14x + 64$ -181 8 \mathcal{B}

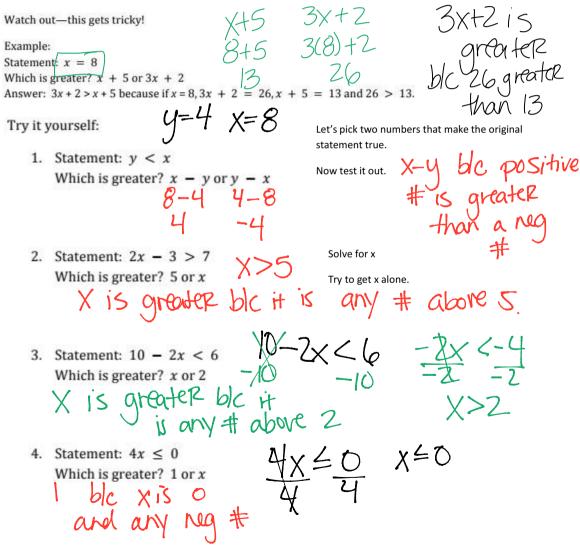
4.4 Greater Than?

A Develop Understanding Task

For each situation you are given a mathematical statement and two expressions beneath it.

 Decide which of the two expressions is greater, if the expressions are equal, or if the relationship cannot be determined from the statement. C BY Sydney G

- 2. Write an equation or inequality that shows your answer.
- 3. Explain why your answer is correct.



List out what an integer is. 7and - 7 |and -| 1,2,3,4... -1,-2,-3,-4 1,2,3,4... -1,-2,-3,-4 1,2,3,4... -1,-2,-3,-4 n=0 n=-4 - n greater n=0 blc 2 negs multiply to ge 2 y=1 positiveList out what an integer is. 5. Statement: *n* is an integer Which is greater? n or -nn greater blc positive is greater what about 0? than negative -n= 6. Statement x > yWhich is greater? x + a or y + a2+a 1+a X=2 y=1 X=2 y=1 greater than y a X-a is greater blc X is greater than y 7. Statement: x > yWhich is greater? x - a or y - a2-a 1-a 2-5 1-5 -3 -4 8. Statement: 5 > Which is greater? $5x \text{ or } 4x \quad X=3$ When X pos, 5X bigger 9. Statement: 5 > 4 What about 0? Which is greater? $\frac{5}{x}$ or $\frac{4}{x}$ X can rever be O when x positive, & greater greater when x neg, Between what two numbers can x be? 1,2,3,4,5,6,7,8,9Between what two numbers can y be? 1,2,3,4,5,6,7,8,9,10,11Are they the same? Where is y greater? 10. Statement: 0 < x < 10 and 0 < y < 12 Which is greater? x or y y (a) 10 and 11 All other options, X and y charge spots @ 102 11 11. Statement: 3^{n+2} 27 Which is greater? *n* or 1 How many 3's make up 27? Equal that number to n + 2. Solve for n. What about when n is negative? equal (ω) Otherwise n is greater blc any # above 1