

Pre-Algebra Homework #14

- 1) Accurately graph the answers to $x > \frac{8}{5}$ on a number line.
- 2) Solve, and accurately graph the answers to $3x \leq \frac{1}{2}$ on a number line.
- 3) Accurately graph the answers to $x > \frac{-15}{7}$ on a number line.
- 4) Solve, and accurately graph the answers to $\frac{-3}{15}x \geq \frac{6}{5}$ on a number line.
- 5) Could the probability of any given event occurring be any of the following numbers: 8, -2.1 , 1.6 , $\frac{4}{4}$, 1.56 , -1 , 45% ?
- 6) Graph $x + 8 \geq 18$
- 7) Graph $-4m \geq -4$
- 8) Graph $-11 > 6 - 2n - 5$
- 9) Frank has \$500 in a savings account at the beginning of the summer. He wants to have a least \$200 at the end of the summer. He withdraws \$25 per week for food, clothing, and movie tickets. How many weeks can Keith withdraw money from his account?
- 10) Graph $x - 1 > 6$
- 11) Graph $\frac{n}{5} \leq 2$
- 12) Graph $x + 1 + 4 \leq 9$

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- 13) A taxi charges a flat rate of \$1.75, plus an additional \$0.65 per mile. If Erica has at most \$10 to spend on a taxi ride, how far could she travel?
- 14) Graph $-2 + x \leq -16$
- 15) Graph $4x \leq 40$
- 16) Graph $30 - 6a < -3(5 + 7a)$
- 17) Allison practices her tuba for at least 12 hours per week. She practices for three fourths of an hour each session. If Allison has already practiced for 3 hours this week, how many sessions remain for her to meet or exceed her weekly practice goal?
- 18) Graph $2(6 + 4n) \geq 12 - 8n$
- 19) Tom is deciding whether or not to become a member at a gym that has basketball courts. A yearly gym membership costs \$135. A member can rent out the basketball courts for \$2. Non-members can also rent the courts but it costs \$11. How many times would Tom need to rent the courts in order for it to be cheaper to be member than a non-member?
- 20) Graph $-2(9r + 3) - 7r \geq -10r - (12r + 9)$

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