

Mw

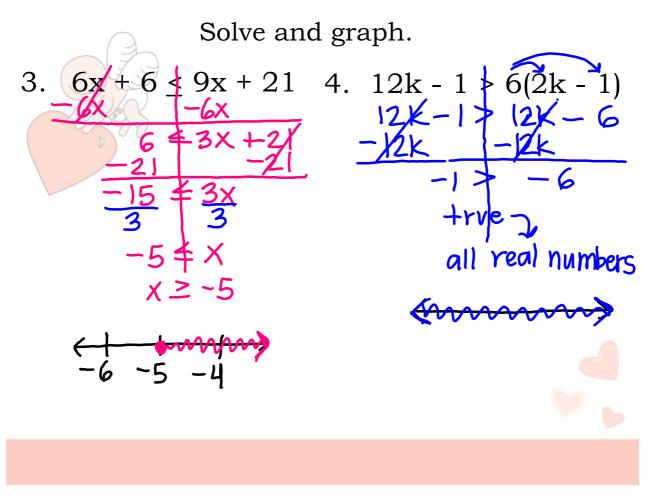
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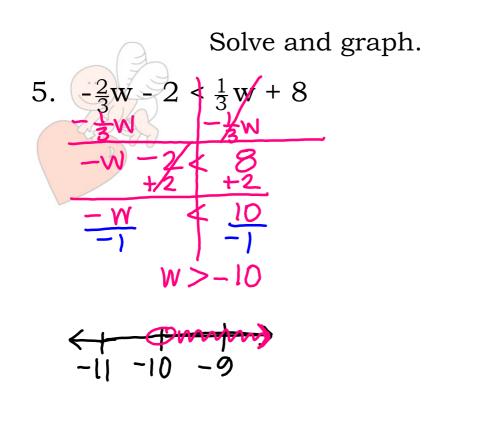
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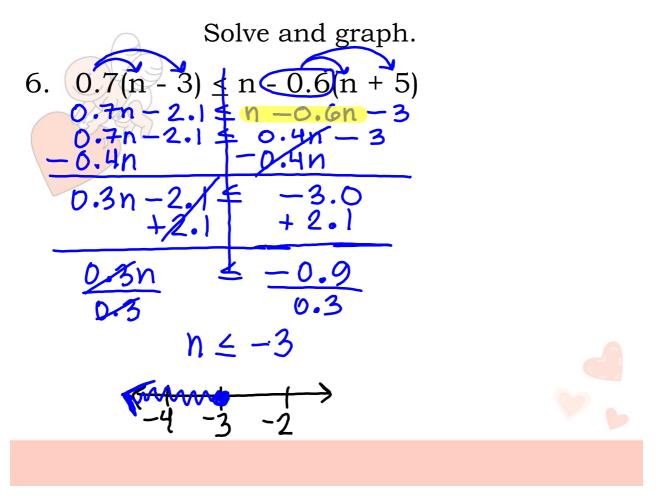


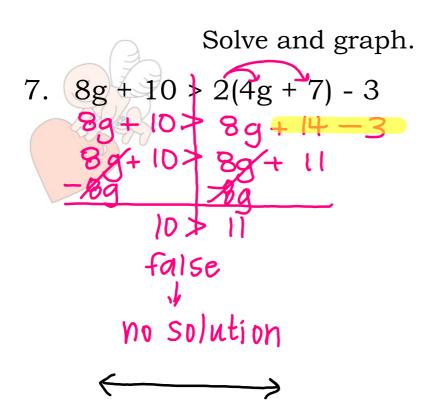
5.3 Solve Multi-Step Inequalities (work).notebook

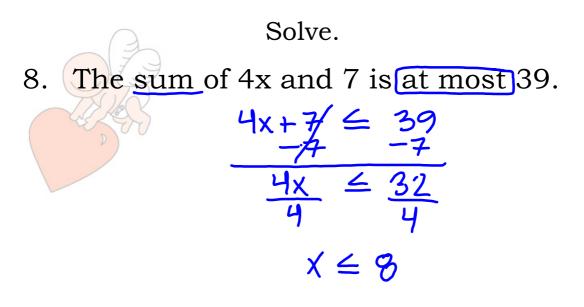


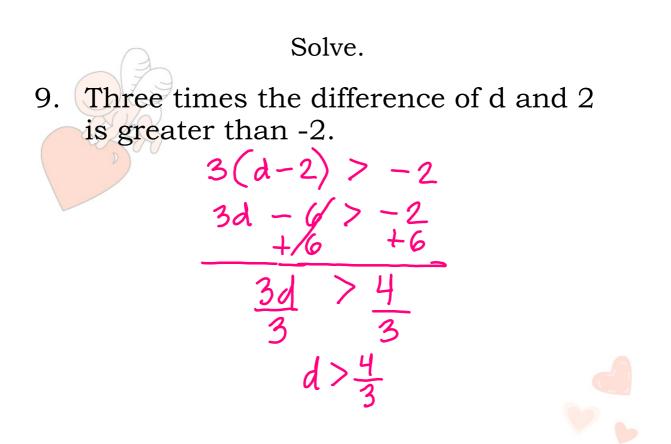


5.3 Solve Multi-Step Inequalities (work).notebook









- 10. The band is raising money for new uniforms by making greeting cards. Mr. Smith spends \$60 of supplies and plans to sell the cards for \$2 each.
 - a) Write an inequality that gives the possible numbers c of cards needed to sell so the profit is positive (greater than 0) 2c - 60 > 0

b) Solve the inequality.

11. Jon is saving money for a trip that costs \$1800. He's saved \$500 so far, & he has 14 more weeks to save \$\$.

a) Write an inequality that gives the possible amount of money Jon needs to save per week so he'll have at least \$1800.

b) How much will Jon need to save per week?

$$500' + 14x \ge 1800 \\ -500 - 500 \\ 14x \ge 1300 \\ 14 \\ 14 \\ x \ge 92.86$$

12. Jennifer has scores of 8, 5, and 7 on three 10-point quizzes. If she wants her average to be at least 7, what must her score be on the next quiz?

$$\frac{8+5+7+x}{4} \ge 7$$

$$\frac{4}{4} \cdot \frac{20+x}{4} \ge 7 \cdot 4$$

$$\frac{20+x}{4} \ge 7 \cdot 4$$

$$\frac{20+x}{20} \ge 28$$

$$\frac{-20}{20}$$

$$x \ge 8$$

