

MARCH 15, 2016

**UNIT 5: LINEAR EQUATIONS AND
INEQUALITIES**

TEST PREPARATION

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MATH 9

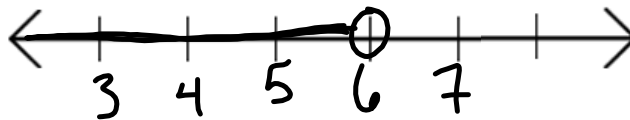




WARM-UP

Solve and graph:

$$\begin{aligned}
 -5a - 3(a - 4) &> -36 \\
 -5a - 3a + 12 &> -36 \\
 -8a + 12 &> -36 \\
 -8a + 12 - 12 &> -36 - 12 \\
 -8a &> -48 \\
 \frac{-8a}{-8} &> \frac{-48}{-8} \\
 * \quad * & \quad \downarrow \quad * \\
 a &< 6
 \end{aligned}$$



HOMework - Questions???

(pages 305/306, #7 - #12 and #16 - #18)

7d 9a 11cd^c

$$7. d) -4x - 2 > 10$$

$$\begin{array}{r} -4x > 12 \\ \hline x < -3 \end{array}$$

$$x < -3$$

HOMEWORK - Questions???

(pages 305/306, #7 - #12 and #16 - #18)

$$9. a) 1 - k \leq 4 + k$$

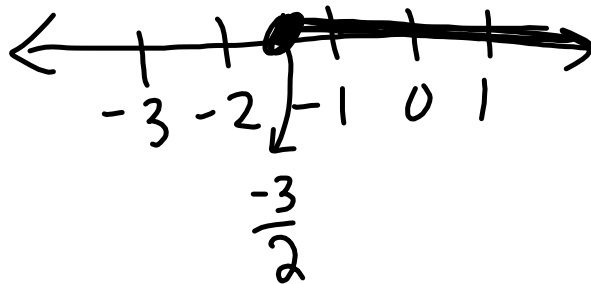
$$1 \leq 4 + 2k$$

$$-3 \leq 2k$$

$$\frac{-3}{2} \leq k$$

$$k \geq \frac{-3}{2}$$

$$k \geq -1\frac{1}{2}$$



HOMWORK - Questions???

(pages 305/306, #7 - #12 and #16 - #18)

$$11. c) \quad 4 - \frac{2}{3}d \geq \frac{5}{6}d - 5$$

$$6(4) - 6\left(\frac{2}{3}d\right) \geq 6\left(\frac{5}{6}d\right) - 6(5)$$

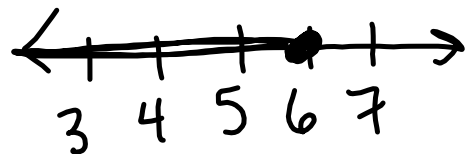
$$24 - 4d \geq 5d - 30$$

$$24 \geq 9d - 30$$

$$54 \geq 9d$$

$$6 \geq d$$

$$d \leq 6$$



HOMework - Questions???

(pages 305/306, #7 - #12 and #16 - #18)

$$11. d) \quad \frac{3}{5}f - \frac{1}{2} < 2 + f$$

$$10 \left(\frac{3}{5}f \right) - 10 \left(\frac{1}{2} \right) < 10(2) + 10(f)$$

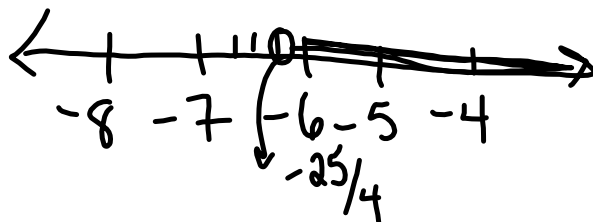
$$6f - 5 < 20 + 10f$$

$$-5 < 20 + 4f$$

$$-25 < 4f$$

$$\frac{-25}{4} < f$$

$$f > -6\frac{1}{4}$$



HOMework - Questions???

(pages 305/306, #7 - #12 and #16 - #18)

$$12.c) \quad 10.5z + 16 \leq 12.5z + 12$$

$$16 \leq 2z + 12$$

$$4 \leq 2z$$

$$2 \leq z$$

**TEST PREPARATION (Wed., March 16) -
Suggested practice questions:**

MMS9:

Page 307: Study Guide

**Pages 308/9: Review Questions (I especially
"like" #4, #7, #8, #11, #12, #15
and #16)**

**Page 310: Practice Test (I especially
"like" #2 to #5)**