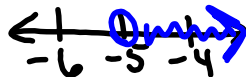


8.7 Part 2

*Solve Inequalities Using Multiplication & Division**Solve and graph.*

1. $\frac{4y}{4} > \frac{-20}{4}$

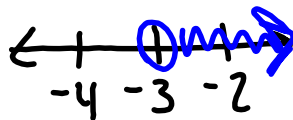
$y > -5$



3. $\frac{-18}{6} < \frac{6b}{6}$

$-3 < b$

$b > -3$



2. $2 \cdot \frac{g}{2} \geq 31 \cdot 2$

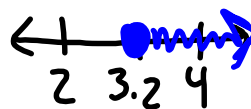
$g \geq 62$



4. $2 \cdot 1.6 \leq \frac{c}{2} \cdot 2$

$3.2 \leq c$

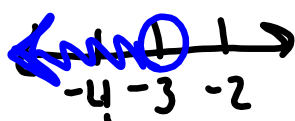
$c \geq 3.2$



*When you multiply or divide
BOTH sides of an inequality by a
NEGATIVE value, you must
FLIP the inequality sign!!*

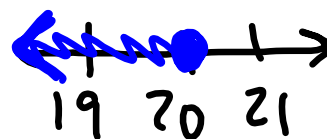
5. $\frac{-15h}{-15} \geq \frac{45}{-15}$

$h < -3$



6. $^{-4} \cdot \frac{p}{-4} \geq^{-4} -5 \cdot^{-4}$

$p \leq 20$



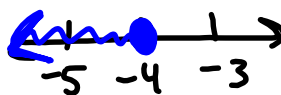
$$7. \quad \frac{-7m \leq 28}{-7 \quad -7}$$

$$m \geq -4$$



$$8. \quad \frac{7m \leq -28}{7 \quad 7}$$

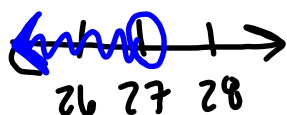
$$m \leq -4$$



$$9. \quad -\frac{p}{9} > -3$$

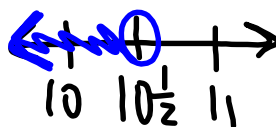
$$-9 \cdot \frac{p}{-9} > -3 \cdot -9$$

$$p < 27$$



$$10. \quad \frac{3}{4} \cdot \frac{4}{3} x < \frac{14}{1} \cdot \frac{3}{4 \cdot 2}$$

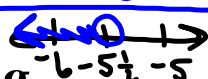
$$x < \frac{21}{2} \text{ or } 10\frac{1}{2}$$



$$11. \quad \frac{-22 > 4h}{4 \div 2} \quad \frac{-11}{2} > h$$

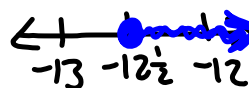
$$\frac{-11}{2} > h$$

$$h < \frac{-11}{2} \text{ or } -5\frac{1}{2}$$



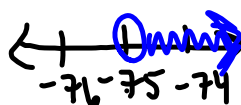
$$12. \quad \frac{-2p \leq 25}{-2 \quad -2}$$

$$p \geq \frac{25}{-2} \text{ or } -12\frac{1}{2}$$



$$13. \quad -5 \cdot \frac{g}{-5} < 15 \cdot -5$$

$$g > -75$$



$$14. \quad \frac{-6 \cdot -20 \leq -\frac{5}{6} d \cdot \frac{-6}{5}}{\frac{-6}{5} \cdot \frac{-20}{1}}$$

$$24 \geq d$$

$$d \leq 24$$

