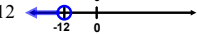
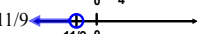


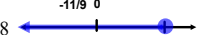
2) variable cancels, true = \mathbb{R} , false = \emptyset

4) $y \leq -1$ 

6) $w < -12$ 

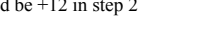
8) $s \leq 4$ 

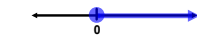
10) $n < -11/9$ 

12) $q \leq 58$ 

14) $f > -55/3$ 

16) should be +12 in step 2

18) $d \geq 0$ 

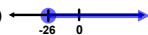
20) \mathbb{R} 

22) \mathbb{R} 

24) \emptyset 

26) \mathbb{R}

28) \emptyset

30) 

32) 

33) C

34) $x > 7$

35) $x \leq 10$

37) at most 11 songs

38) at least 6 ornaments

39) a: up to 6 swans

b: 14 swans

40) C

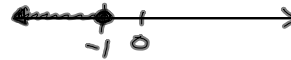
Algebra I
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4) $5y + 9 \leq 4$

$5y + 9 - 9 \leq 4 - 9$

$5y \leq -5$

$y \leq -1$



12) $(4 - \frac{1}{2}g \leq 33 - g) \cdot 2$

$8 - g \leq 66 - 2g$

$8 - g + g \leq 66 - 2g + g$

$8 \leq 66 - g$

$8 - 66 \leq 66 - 66 - g$

$-58 \leq -g$

$58 \geq g$



14) $(8 - \frac{4}{5}F > -14 - 2F) \cdot 5$

$40 - 4F > -70 - 10F$

$40 - 4F + 10F > -70 - 10F + 10F$

$40 + 6F > -70$

$40 - 70 + 6F > -70 - 40$

$6F > -110$

$F > -\frac{55}{3}$



20) $2(t-3) > 2t-8$

$2t-6 > 2t-8$

$2t-2t-6 > 2t-2t-8$

$-6 > -8$

\mathbb{R}

32) $6(6x-3) \leq -2(4+3x)$

$36x-18 \leq -8-16x$

$36x+16x-18+18 \leq -8+18-16x+16x$

$52x \leq 10$

$x \leq \frac{5}{26}$

35) $A = \frac{1}{2}bh$

$\frac{1}{2} \cdot 8(x+1) \leq 44$

$\frac{4(x+1)}{4} \leq \frac{44}{4}$

$x+1 \leq 11$

$x+1-1 \leq 11-1$

$x \leq 10 \text{ cm}$

37) $4x + 25 \leq 70$

$4x+25-25 \leq 70-25$

$\frac{4x}{4} \leq \frac{45}{4}$

$x \leq 11.25$

11 or less

39) $500 + 125x \leq 20(50)$
1st + two swans 2 + additional 4 = 6 swans

$500 - 500 + 125x \leq 1000 - 500$

$\frac{125x}{125} \leq \frac{500}{125}$

$x \leq 4$

at most 6 swans

b: $500 + 125x \leq 40(70)$

$500 - 500 + 125x \leq 2800 - 500$

$\frac{125x}{125} \leq \frac{2300}{125}$

$x \leq 18.4$

at most 20 swans.

14 swans

38) Let $x =$ ornaments sold

$\frac{8.50x}{8.5} > \frac{46}{8.5}$

$x > 5.41$

6 or more

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1-33 odd

