Graphing Compound Inequalities   MS3
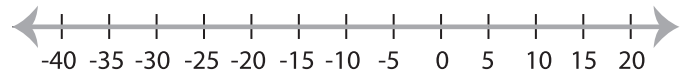
Graph the compound inequalities.
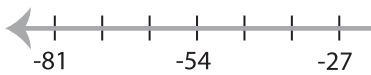
1) $33 \leq x$ or $x > 66$
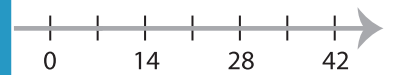
$$\xleftarrow{\quad|\quad|\quad|\quad|\quad|\quad|\quad|\quad} \rightarrow$$
-44   -22   0   22   44   66   88

2) $x > -20$ and $x < 5$

$$\xleftarrow{} \rightarrow$$
-40 -35 -30 -25 -20 -15 -10 -5   0   5 10 15 20

3) $x < -36$ and $x \leq -5$

$$\xleftarrow{} \rightarrow$$
-81   -54   -27
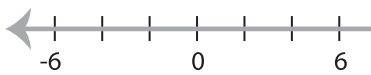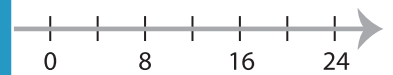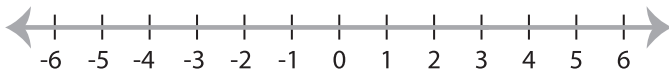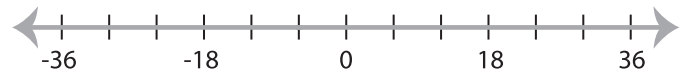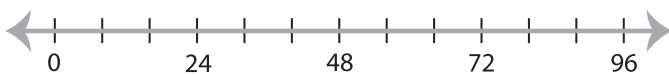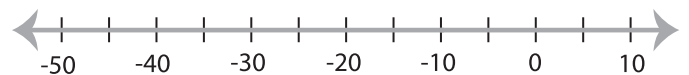
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0   14   28   42

5) $8 < x$ or $16 < x$

$$\xleftarrow{} \rightarrow$$
-6   0   6

-4

0   8   16   24

7) $-3 \leq x \leq 3$

$$\xleftarrow{} \rightarrow$$
-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6

·6

$$\xleftarrow{} \rightarrow$$
-36   -18   0   18   36

9) $x \leq 64$ or $x < 32$

$$\xleftarrow{} \rightarrow$$
0   24   48   72   96

10) $x > -10$ and $x \geq -45$

$$\xleftarrow{} \rightarrow$$
-50   -40   -30   -20   -10   0   10