Name _____ Date _____ Class_____
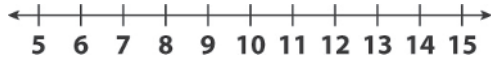
Model and Solve Addition and Subtraction Inequalities
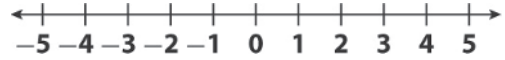*Practice and Problem Solving: A/B*

Solve each inequality. Graph and check the solution.
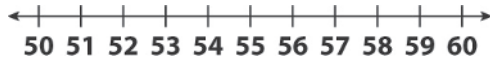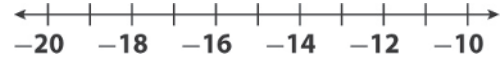
1. $9 > n - 2$ _____


```
5  6  7  8  9  10 11 12 13 14 15
```

2. $x + 8 < 10$ _____


```
-5 -4 -3 -2 -1  0  1  2  3  4  5
```

3. $m - 18 \le 36$ _____


```
50 51 52 53 54 55 56 57 58 59 60
```

4. $112 \ge b + 128$ _____


```
-20   -18   -16   -14   -12   -10
```

5. $83 \le p - 183$ _____


```
260   262   264   266   268   270
```

6. $c + 93 \ge 17$ _____


```
-80  -78  -76  -74  -72  -70
```
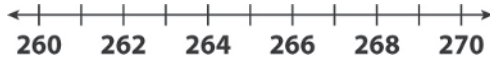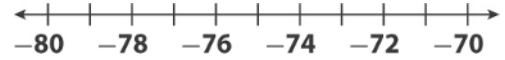
Write an inequality to solve each problem.

7. DeShawn has $53. He needs at least $76 to buy the jacket he wants. How much more money does he need for the jacket?

_____

8. Kristen needs at least 500 points to earn the next trophy on her video game. She has 418 points. How many points must she earn to win the trophy?

_____

9. Abha is hosting a party at a place that can hold up to 125 people. Seventy-eight people have said they are coming. How many more people can Abha invite?

_____

Solve.

10. Write a real-world problem that can be represented by the inequality $r + 32 \ge 56$. Solve the inequality.

_____

_____