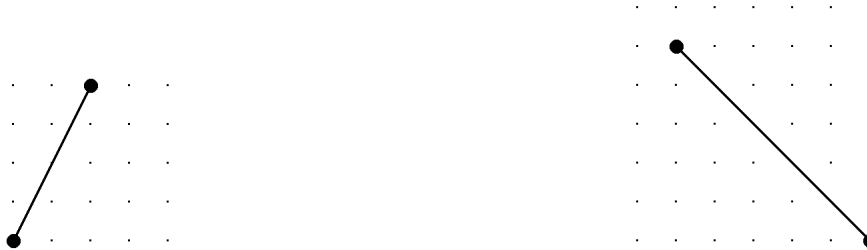


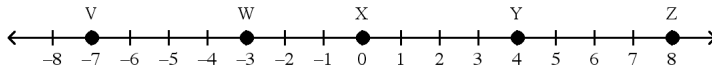
Geometry Test 2 Mr. Holcomb 2008/2009
Niceset thing you have done for a parent lately.

Problem

1. (12 points) Find the lengths of the segment.

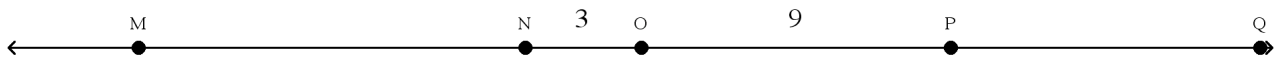


2. (8 points) Use the number line below to answer the questions that follow.



- a. Find the length of \overline{ZY} .
 b. Find the length of \overline{WZ} .
 c. Find the length of \overline{VW} .
 d. What is the coordinate of the midpoint of \overline{WY} ?
3. (8 points) Use the number line below to answer the questions that follow.

In the figure, $MO = OQ$ and P is the midpoint of \overline{OQ}



- a. What is the length of \overline{PQ} ?
 b. What is the length of \overline{MN} ?
 c. What is the length of \overline{MQ} ?
 d. What is the length of \overline{NQ} ?

Model Drawing Problem.

- 1) Read the problem completely.
 - 2) Draw a model. Label the model with the given information. Remember “Recipe Reading”. (4 points)
 - 3) Define a base unit. (2 points)
 - 4) Place your “?”. (2 points)
 - 5) Work your computation. (2 points)
 - 6) Write a complete sentence to answer the question. (2 points)
4. (12 points) Points A, B, C, and D are collinear. Point C is the midpoint of \overline{AB} . Point B is between points C and D. The length of \overline{CB} is one-third the length of \overline{BD} . Find the length of \overline{CD} if the length of $\overline{AD} = 90$.

5. (6 points) Solve the equation $104 = \frac{1}{2} [(360 - x) - x]$. Justify with clear and complete work.

6. (6 points) Solve the equation $\frac{x + (-2)}{2} = -6$. Justify with clear and complete work.