Name: _____
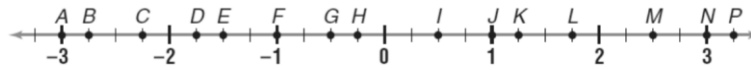
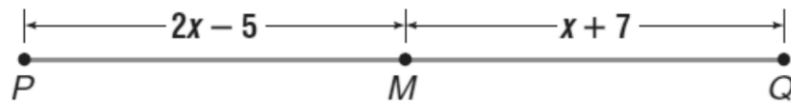# Measuring and Constructing Segments

A) Use the number line to find each measure

1) AI

2) FK

3) AP

4) CK

5) HM

6) JK

7) IN

8) GH

9) AN

10) MN

11) HL

B) In the figure below, M is the midpoint of $\overline{PQ}$.

$$\overset{\displaystyle |\!\!\longleftarrow 2x-5 \longrightarrow\!|\!\longleftarrow x+7 \longrightarrow\!|}{\underset{P \qquad\qquad\qquad\qquad M \qquad\qquad\qquad\qquad Q}{\rule{0pt}{0pt}}}$$
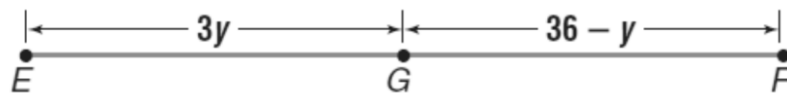
12) Find the value of x.

13) Find the length of PM

14) Find the length of PQ

C) In the figure below, G is the midpoint of $\overline{EF}$.

$$\overset{\displaystyle |\!\!\longleftarrow 3y \longrightarrow\!|\!\longleftarrow 36-y \longrightarrow\!|}{\underset{E \qquad\qquad\qquad\qquad G \qquad\qquad\qquad\qquad F}{\rule{0pt}{0pt}}}$$

15) Find the value of y.

16) Find the length of EG and GF

17) Find the length of EF