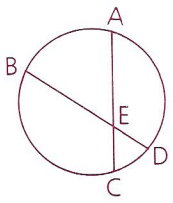
Problem Set A, *continued*

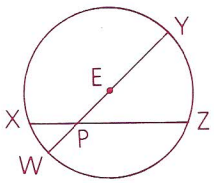
13 Given: $\overset{\frown}{AB} = 85°$, $\overset{\frown}{CD} = 25°$

Find: $\angle AED$



14 Given: $\overline{WY}$ is a diameter of $\odot E$.
$\overset{\frown}{WX} = 50°$, $\angle XPY = 120°$

Find: $\overset{\frown}{WZ}$

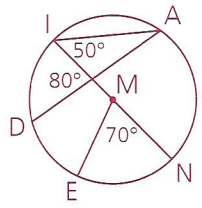


15 A circle is divided into three arcs in the ratio of 3:4:5. A tangent-chord angle intercepts the largest of the three arcs. Find the measure of the tangent-chord angle.

16 An inscribed angle intercepts an arc that is $\frac{1}{9}$ of the circle. Find the measure of the inscribed angle.

17 If a point is chosen at random on $\odot M$, what is the probability that it lies on

a $\overset{\frown}{IAN}$ **b** $\overset{\frown}{AN}$ **c** $\overset{\frown}{ID}$ **d** $\overset{\frown}{IE}$

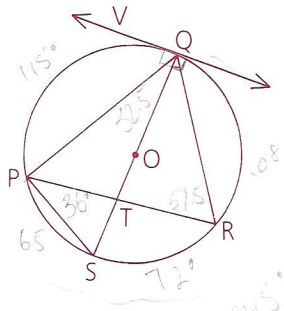


Problem Set B

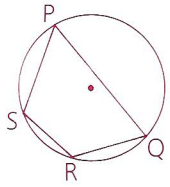
18 Given: $\overleftrightarrow{VQ}$ is tangent to $\odot O$ at Q.
$\overline{QS}$ is a diameter of $\odot O$.
$\overset{\frown}{PQ} = 115°$; $\angle RPS = 36°$

Find:

a $\angle R$	**e** $\angle QPR$	**i** $\overset{\frown}{PRQ}$
b $\angle S$	**f** $\angle QPS$	**j** $\overset{\frown}{RSP}$
c $\overset{\frown}{SR}$	**g** $\angle QTP$	**k** $\angle VQS$
d $\overset{\frown}{QR}$	**h** $\angle PQV$	**l** $\angle QOP$



19 Given $m\angle P = 60$ and $m\overset{\frown}{PSR} = 128$, find $m\angle Q$, $m\angle R$, and $m\angle S$.



20 The major arc cut off by two tangents to a circle from an outside point is five thirds of the minor arc. Find the angle formed by the tangents.