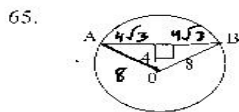
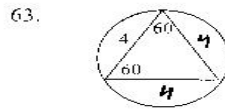
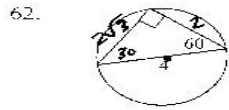


# KEY

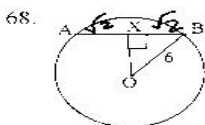
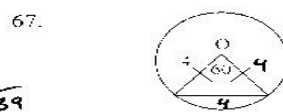


AB =  $8\sqrt{3}$



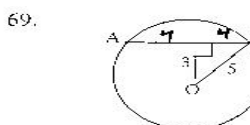
$8^2 - 5^2 = \sqrt{39}$

AB = 10  
OP =  $\sqrt{39}$

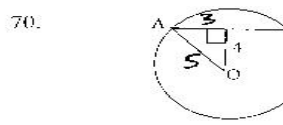


$6^2 - 2^2 = \sqrt{34}$

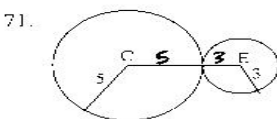
AB =  $2\sqrt{2}$   
OX =  $\sqrt{34}$



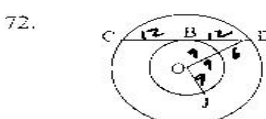
AB = 8



AB = 6  
AO = 5



CE = 8



$15^2 - 9^2 = \sqrt{144} = 12$

$\overline{CD}$  is tangent to circle O  
OJ = 9, OD = 15  
BD = 12



EG = 12  
FG = 5