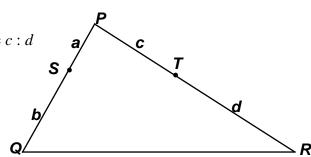
ROUND 7 TEAM QUESTIONS - continued

E) Given: PQ = 6, QR = 10, PS : SQ = a : b, PT : TR = c : d

$$\frac{a}{b} = \frac{c}{d}, \ \frac{c}{a+b} = \frac{a}{c+d}$$

Compute the <u>maximum</u> perimeter of ΔPQR .



F) Compute the probability that between 4PM and 5PM the angle between the minute and hour hands of a clock will form an obtuse angle.