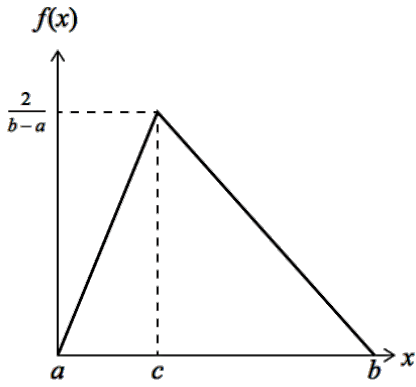


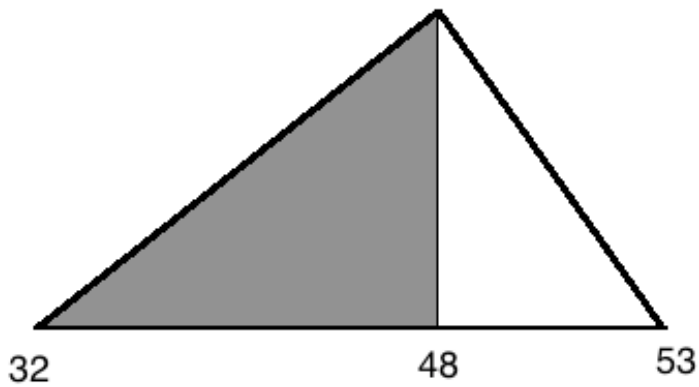
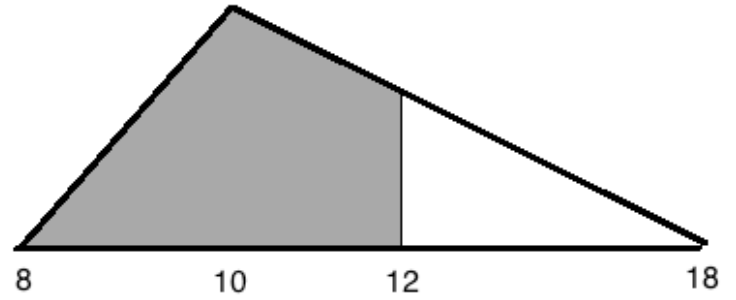
Triangular Distribution Skills practice

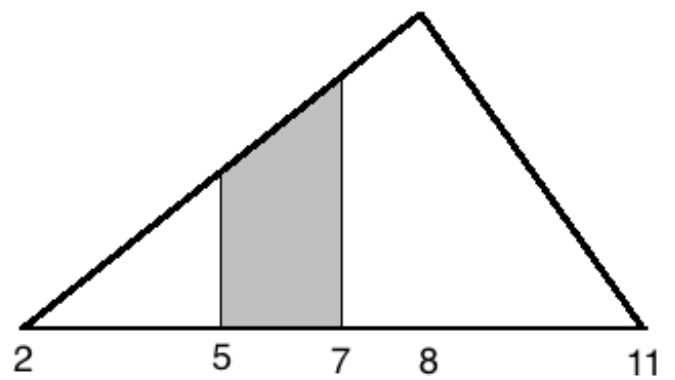
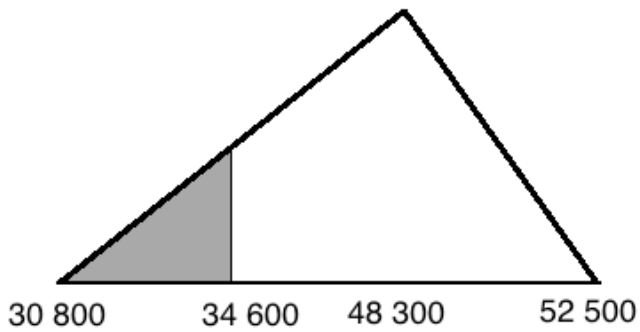
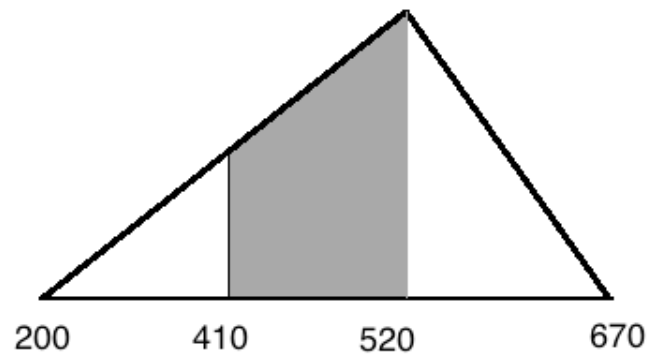
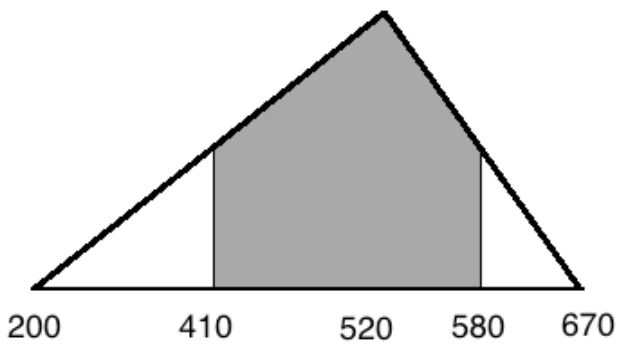


$$f(x) = \begin{cases} 0, & x < a \\ \frac{2(x-a)}{(b-a)(c-a)}, & a \leq x \leq c \\ \frac{2(b-x)}{(b-a)(b-c)}, & c \leq x \leq b \\ 0, & x > b \end{cases}$$

Area of a triangle = $\frac{1}{2}$ base \times height

Find the shaded areas in each triangle (area = probability)





Extension: Can you calculate the value of x ? (Excellence)
 Hints: 0.2 is an area. Perhaps consider similar triangles.

