

Student Work Sample E

20% women
25% boys
+ 12.5% men

57.5% total

$$\begin{array}{r} 100 \\ - 57.5 \\ \hline 42.5 = 68 \text{ girls} \end{array}$$

$$68 \div 42.5 = 1.6\%$$

$$\begin{array}{r} 1.6 \times 100 = 160 \text{ is } \frac{2}{3} \text{ of total} \\ + 80 \\ \hline 240 \text{ seats} \end{array}$$

we first found percents for women (20%), boys (25%), and (12.5%) for men. That equaled 57.5%. we then had 68 girls. we subtracted 57.5% from 100% so we could find the percent for 68 girls which was 42.5%. we divided 68 by 42.5 and got 1.6 which is one percent. we multiplied that by one hundred and got 160 people for $\frac{2}{3}$ of the airplane. we divided 160 by 2 to get $\frac{1}{3}$ percent, which was 80. we then added 160 and 80 to get 240 the total number of seats on the airplane.