$$= \frac{600}{\frac{200}{24.3} + \frac{150}{24.8} + \frac{150}{20.4} + \frac{100}{22.2}}$$

$$= \frac{600}{8.2305 + 6.0484 + 7.3530 + 4.5045}$$

$$= \frac{600}{26.1364} = 22.9565 \text{ (Rounded to nearest 0.1 mpg.)}$$