

Question 1

We know that:

$$\frac{1760 \text{ yd}}{1 \text{ mi}} = 1 \Rightarrow 1 \text{ yd} = \frac{1}{1760} \text{ mi} \Rightarrow$$

$$\Rightarrow 1849 \text{ yd} = 1849 \cdot \frac{1}{1760} \text{ mi} \approx 1.051 \text{ mi}.$$

So, the conversion factor is $\frac{1}{1760}$.

Answer: $\frac{1}{1760}$.

Question 2

We know that:

$$\frac{1760 \text{ yd}}{1 \text{ mi}} = 1 \Rightarrow 1 \text{ mi} = 1760 \text{ yd} \Rightarrow$$

$$\Rightarrow 2781 \text{ mi} = 2781 \cdot 1760 \text{ yd} = 4894560 \text{ yd}.$$

So, the conversion factor is 1760.

Answer: 1760.