☑ Try It!
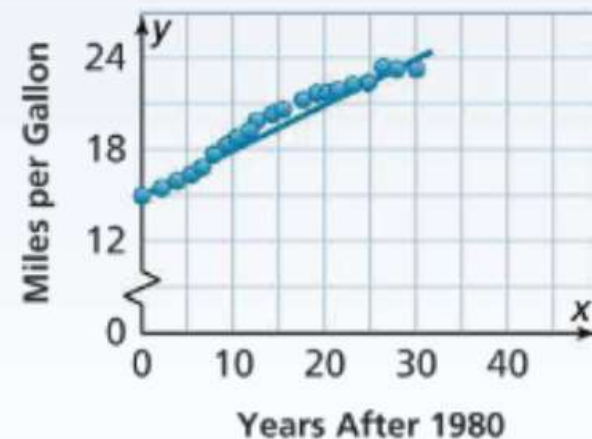
Assuming the trend shown in the graph continues, use the equation of the trend line to predict average fuel consumption in miles per gallon in 2025.

The equation of the trend line is $y = \boxed{} x + \boxed{}$ .In 2025,

the average fuel consumption is predicted to be about $\boxed{}$ mpg.

Fuel Economy in Vehicles

Miles per Gallon (y-axis): 12, 18, 24
Years After 1980 (x-axis): 0, 10, 20, 30, 40

Try It!

A smoothie café has the ingredients needed to make 50,000 smoothies on a day when the high temperature is expected to reach 90°F. Should the café employees expect to have enough ingredients for the day's smoothie sales? Explain.

$$\text{Slope} = \frac{56-32}{80-40} = \frac{24}{40} = \frac{3}{5}$$

y-intercept = 8

Number of Smoothies Purchased (in thousands)

64

48

32

16

0

0   20   40   60   80

Temperature (°F)