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Using Proportions

On steven's trip to his grandma's house, he drove 300 miles and used up 12 gallons of gas. At this rate, how many gallons would it take to drive 800 mile?

$$\frac{\text{miles}}{\text{gallons}} \quad \frac{300}{12} \overset{\div 3}{=} \frac{800}{x}$$

$$\frac{100}{4} \overset{(8)}{=} \frac{800}{x}$$

$$x = 32$$

It will take 32 gallons of gas to drive 800 miles.

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2.) Jason uses 12 gallons of ice cream to make 80 sundaes. If Jason has 27 gallons of ice cream, how many sundaes can he make.

gallons of ice cream / Sundaes

$\frac{12}{80} \div \frac{4}{4} = \frac{27}{x}$

$\frac{3}{20} = \frac{(9)}{(9)} = \frac{27}{x}$

$x = 180$

Jason would be able to make 180 sundaes.