Name: .... Class: ....

Multi - step problems with customary unit conversions

1. Kevin uses 6 ounces of cheese in each pizza he makes. How many pounds of cheese does Kevin need to make 30 pizzas?

2. Yesterday, Ben drove 200 miles using 10 gallons of gasoline. Today, he wants to travel 500 miles. How many gallons of gasoline does he need?

mathskills4kids

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Multi - step problems with customary unit conversions

1. Kevin uses 6 ounces of cheese in each pizza he makes. How many pounds of cheese does Kevin need to make 30 pizzas?

Let's first of all find out how many ounces of cheese kevin needs to make 30 pizzas

1 pizza = 6 ounces of chesse

Therefore, 30 pizzas = $\dfrac{30\times6}{1}$ ounces of cheese

= 180 ounces of cheese

So, Kevin needs 180 ounces of cheese to make 30 pizzas

Now, let's convert 180 ounces into pounds

If 16 ounces = 1 pound

Therefore, 180 ounces = $\dfrac{180\times1}{16}$ pounds = $\dfrac{45}{4}$ pounds ⟶

$$4\overline{)\begin{array}{l}11\\45\\-44\\\hline 1\end{array}}$$

Therefore, Kevin needs $11\frac{1}{4}$ pounds of cheese to make 30 pizzas

2. Yesterday, Ben drove 200 miles using 10 gallons of gasoline. Today, he wants to travel 500 miles. How many gallons of gasoline does he need?

Let's first of all find the number of miles he can travel or drive using 1 gallon of gasoline

10 gallons of gasoline = 200 miles

1 gallon of gasoline = $\dfrac{200\times1}{10}$ miles = 20 miles

So, Ben can travel 20 miles with 1 gallon of gasoline

Now, let's find out how many gallons of gasoline he needs to travel 500miles

If he travels 20 miles using 1 gallon of gasoline,

Therefore, he will travel 500 miles using $\dfrac{500\times1}{20}$ gallons of gasoline

= $\dfrac{25\times20}{20}$ = 25

Therefore, Ben needs 25 gallons of gasoline to travel 500 miles.