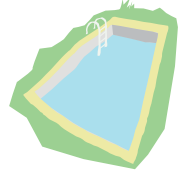


WATER CONSERVATION WORKSHEET

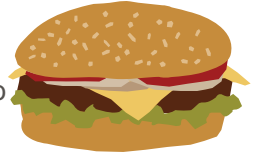
Level 3 Math

Word Problems

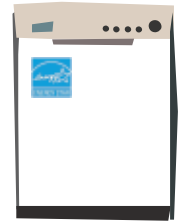
1. The water in the Jenkins family's pool evaporates at a rate of **1,000 gallons per month** when it is uncovered, but it doesn't evaporate at all when it is covered. If the family keeps the pool covered for an average of **7 months a year**, how many gallons evaporate each year?



2. It takes about **1,500 gallons** of water to produce a pound of hamburger meat. If Jane eats a **quarter-pounder every day**, how many gallons of water are used to make her burger patties over the course of **one week**?



3. Timothy is buying a new dishwasher. He could buy a normal model that uses about **6 gallons per load**, or a water-saving model that uses only **4 gallons per load**. If he does **one load** of dishes **every other day**, how much water would he save with the water-saving model after **one month** (30 days)?



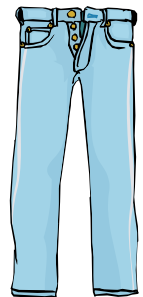
4. Gwen buys **one bottle of water every day** and each bottle uses **one ounce of plastic**. It takes about **24 gallons of water to produce one pound of plastic**. How many gallons of water are used to make Gwen's water bottles in **one year**? (There are 16 ounces in a pound.)



5. The Merina family's lawn is **125 by 60 feet** and they water it **twice a week** with **1/2 an inch of water**. If it takes **660 gallons to water 1,000 square feet with one inch of water**, how much water do the Merinas use on their lawn in **one year**?



6. Meg buys **one new cotton shirt** and **one pair of jeans** about **every 4 months**. Each pair of jeans she buys weighs about **2.5 pounds**, and each shirt weighs about **one pound**. It takes **101 gallons of water to produce a single pound of cotton**. How much water has been used to produce her jeans over the past **3 years**?



WATER CONSERVATION WORKSHEET

Level 3 Math

Teachers Guide

Word Problems

- $(12-7) \times 1000 = 5,000$
5,000 gallons
- $(1500/4) \times 7 = 2,625$
2,625 gallons
- $6 \times 15 = 90$
 $4 \times 15 = 60$
 $90 - 60 = 30$
or $(30/2) \times (6-4) = 30$
30 gallons
- $1 \times 24 \times 365 / 16 = 547.5$
(bottle) \times (water) \times (year) / (ounces to pound)
547.5 gallons
- $125 \times 60 = 7,500$ (square feet)
 $(660/2) \times (7,500/1000) \times 52 \times 2 = 257,400$
(water/2) \times (area/1000) \times (52 weeks/year) \times (2x/week)
257,400 gallons
- $(2.5+1) \times 3 \times 3 = 31.5$ ((jean+shirt) \times 3 times/year \times 3 year)
 $31.5 \times 101 = 3,181.5$ (total cotton) \times (water)
3,181.5 gallons

