

Got a Problem?

Roosevelt Middle School: Percentage?

The Problem: If every student reduced their garbage by 10%, how much impact would that have on our overall volume of waste?

Watch the Youtube video (<http://youtu.be/d-QT3wNrgvM>) and fill in the figures mentioned*

Data Collection Sheet

Number of students at Roosevelt*	students
Number of school weeks (5 days) for students*	weeks
Number of school days for students	173.5 days
Volume of compactor emptied once/ school week (5 days)*	cubic yards
Volume of dumpster emptied once/school week (5 days)*	cubic yards
1 cubic yard =	201.97 gallons

Show your work for each problem below!

1. How much garbage is Roosevelt Middle School **currently** producing each school week *in cubic yards*?
2. What would the resulting **total** Roosevelt garbage reduction every week be *in cubic yards*?
3. What would the resulting **total** Roosevelt garbage reduction every week be *in gallons*?
4. What would the resulting **total** Roosevelt garbage reduction every day be *in gallons*?
5. How much garbage is the average student producing currently each week *in gallons*?

Got a Problem?

Roosevelt Middle School: Percentage?

6. How much less garbage would you have to produce each day *in gallons* if you made a 10% reduction?

7. **Use some every day measurement of volume to make the last answer more meaningful to a fellow student.
8. **How might you reduce your own garbage?