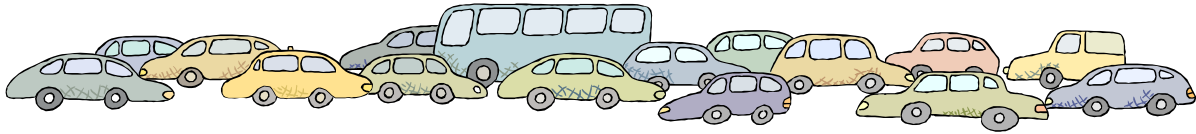


How much pollution is that car producin'?



For every kilometer the average car is driven, 0.24kg of air pollution is produced.
This is equivalent to two hundred and twenty seven pencils or two medium sized hamsters!

It's true! Here's an activity that will help you calculate the amount of pollution created by your family's car.

MATERIALS FOR EACH GROUP

- An enlarged neighbourhood map (will need to have a scale)
- A bin of dry black beans
- Several containers to measure beans into
- 5 pieces of string measured to match the scale of the 1 kilometre scale on the map
- A scale that measures kilograms (as available)
- Small bags to put the beans in

9. Using your container scoop up some black beans and measure the weight on the scale.
10. Add or remove beans to match the weight of the air pollution total for your round trip.
11. Put you weighed beans in to a small bag and let another group member weigh out their beans.

PROCEDURES AND CALCULATIONS

1. Separate into groups of five.
2. Collect the list materials.
3. Individually, find your home on the map provided.
4. As a group, find where your school is located. Mark the school so it will be easy to find.
5. Take turns using your string to measure the distance between your house and the school.
6. If the string represents 1kilometer, how far is your house from the school?
7. Using the formula $1\text{km} = .24\text{kg}$ of air pollution to calculate the amount of pollution produced on a car ride from your house to school. (distance from your house to school)km X 0.24kg = ___kg
8. To calculate the total round trip times this number by 2.

FILL IN YOUR ANSWERS

From my house to the school is: _____km
Driving to school produces: _____kg
of air pollution.
A round trip produces: _____kg
of air pollution.
When I walk to school I produce _____kg
of pollution. **Good for me!**

WHAT WERE THE WEIGHTS OF YOUR OTHER GROUP MEMBERS

Name: _____ Round Trip: _____kg
Name: _____ Round Trip: _____kg
Name: _____ Round Trip: _____kg
Name: _____ Round Trip: _____kg

Scale is defined as the relation between the real size of something and its size on a map, model or diagram: a scale of 1:50 000

For further information on pollution from cars visit: <http://tinyurl.com/36d2b>