



ENVIRONMENT

MATH PROBLEM SOLVING

BEGINNER

1. IF YOU HAVE FIVE FLOWERS GROWING IN YOUR GARDEN AND EACH ONE HAS SIX PEDALS ON IT, HOW MANY FLOWER PETALS DO YOU HAVE IN YOUR GARDEN?
2. JULIA PLANTED SEVEN TREES IN HER FRONT YARD, FOUR TREES IN HER BACKYARD AND TWO TREES IN HER NEIGHBOUR'S YARD. HOW MANY TREES DID JULIA PLANT IN TOTAL?
3. BOBBY WAS ABLE TO CONVINCE HIS FAMILY TO SAVE \$10 ON THEIR GAS BILL, \$7 ON THEIR WATER BILL AND \$36 ON THEIR ELECTRIC BILL. HOW MUCH MONEY DID BOBBY'S FAMILY SAVE BY BEING MORE ENVIRONMENTALLY-FRIENDLY?
4. IF YOU HAVE 18 HOMES ON YOUR STREET AND EVERYONE CUT THEIR ELECTRICITY USE BY \$15, HOW MUCH MONEY WAS SAVED BY YOUR NEIGHBOURHOOD BEING MORE ENVIRONMENTALLY-FRIENDLY?

INTERMEDIATE

5. SUSIE HAS SIX SEATS IN HER CAR. BILLY HAS FIVE SEATS IN HIS CAR. TONY HAS FOUR SEATS IN HIS CAR. IF THEY ALL FILLED THEIR CARS WITH PEOPLE GOING TO WORK INSTEAD OF EVERYONE DRIVING THEIR OWN CARS, HOW MANY FEWER CARS WILL BE ON THE ROAD?
6. IF A TYPICAL CLASSROOM USES 100 TREES WORTH OF PAPER IN A YEAR AND YOUR SCHOOL HAS 9 CLASSROOMS, HOW MANY TREES ARE USED TO MAKE PAPER EACH YEAR IN YOUR SCHOOL?
7. IF A SINGLE FACTORY PRODUCES 1000 TONNES OF WASTE IN A YEAR, HOW MUCH WASTE WOULD 11 FACTORIES PRODUCE IN 5 YEARS?
8. JOHN LOOKED THROUGH HIS CUPBOARDS AND REALIZED THAT HE HAD 2 LITRES OF TOXIC WINDOW CLEANER, 4.5 LITRES OF TOXIC BLEACH AND 7.4 LITRES OF TOXIC CAR CLEANING PRODUCTS. IF JOHN DISPOSED OF ALL HIS TOXIC PRODUCTS AND BOUGHT NON-TOXIC PRODUCTS INSTEAD, HOW MANY LITRES OF TOXIC WASTE HAS HE SAVED FROM GOING INTO LANDFILLS?

ADVANCED

9. TIMMY'S FAMILY ATE 4 APPLES, 6 ORANGES AND 8 BANANAS ONE WEEK. EACH APPLE CORE WEIGHED 1/2 POUND, EACH ORANGE PEEL WEIGHED 1/3 OF A POUND AND EACH BANANA PEEL WEIGHED 1/4 OF A POUND. IF TIMMY'S FAMILY PUT THESE INTO THE COMPOST INSTEAD OF THE GARBAGE, HOW MUCH LESS WOULD THEIR GARBAGE WEIGH?
10. IF THERE ARE 16 SCHOOL BUSES AT YOUR SCHOOL AND EACH ONE NEEDS 80 LITRES OF GAS TO RUN EVERY DAY. HOW MUCH GAS IS SAVED DURING JULY AND AUGUST WHEN YOU AREN'T IN SCHOOL?
11. JENNIFER DRINKS 2 BOTTLES OF WATER EACH DAY OF THE YEAR. IF SHE WERE TO RECYCLE HER WATER BOTTLES INSTEAD OF THROWING THEM IN THE GARBAGE, HOW MANY BOTTLES WOULD SHE SAVE FROM GOING TO THE LANDFILL IN 6 YEARS?
12. SAMMY HAD 30 STUDENTS IN HIS CLASS. EACH STUDENT HAD A PARENT WHO DROVE THEM TO SCHOOL EVERYDAY. IF A TYPICAL CAR CAN FIT 5 STUDENTS AND THE CLASS DECIDED TO CARPOOL, HOW MANY VEHICLES WOULD IT TAKE TO DRIVE THE WHOLE CLASS TO SCHOOL?