

Lesson 8 Operation Water Pollution

Water calculations

1 tonne = 1000 kg

2.7 million tonnes x 1000 kg/1 tonne = 2 700 000 000 kg plastic for water

bottles and therefore 2 700 000 000 kg PETs

2 700 000 000 kg PET x 17.5 kg water/1 kg PET = 47 250 000 000 kg water

47 250 000 000 kg water x 1 tonne/1000 kg = 47 250 000 tonnes water

5 511 556 lbs. water in Olympic sized pool

5 511 556 lbs. ÷ 2.2 lbs/kg = 2 505 252 kg water

2 505 252 kg water x 1 tonne/1000 kg = 2 505 tonnes water in Olympic sized pool

47 250 000 tonnes water ÷ 2 505 tonnes = 18 862 Olympic sized pools

1 year = 365 days

18 862 pools ÷ 365 days = 51.6 years