

In the year 2007, an estimated amount of 31 billion tons of carbon dioxide (CO₂) was emitted worldwide due to fossil fuel combustion and cement production. Express this mass of CO₂ in grams without exponential notation, using an appropriate metric prefix

Solution

31 000 000 000 tons is equal to 31 000 000 000 000 kilograms, is equal to 31 000 000 000 000 000 grams of carbon dioxide (CO₂) is 31 petagrams (31 Pg) of carbon dioxide (CO₂)

Answer: **31 petagrams (31 Pg)**