

Standard Form Worded Questions Worksheet

Problem Solving

1. The distance from the Earth to the Sun is about 149,600,000 kilometres. Write this distance in standard form.
2. The population of a country is estimated to be 83,000,000 people. Express this number in standard form.
3. A grain of sand has a mass of about 0.00000032 grams. Write this mass in standard form.
4. The speed of light is approximately 299,792,458 metres per second. Express this speed in standard form.
5. The diameter of a human hair is about 0.000075 metres. Write this diameter in standard form.
6. The mass of the Earth is about 5,970,000,000,000,000,000,000 kilograms. Express this mass in standard form.
7. A bacterium is about 0.0000025 metres long. Write this length in standard form.
8. The area of Russia is about 17,098,242 square kilometres. Express this area in standard form.
9. The thickness of a sheet of paper is about 0.0001 metres. Write this thickness in standard form.
10. The national debt of a country is £2,340,000,000,000. Express this amount in standard form.

Answer Key

1. 1.496×10^8 km
2. 8.3×10^7 people
3. 3.2×10^{-7} grams
4. 2.99792458×10^8 m/s
5. 7.5×10^{-5} metres
6. 5.97×10^{24} kg
7. 2.5×10^{-6} metres
8. 1.7098242×10^7 km²
9. 1×10^{-4} metres
10. $\pounds 2.34 \times 10^{12}$