# Standard form worksheet

## Mathematics for A-level Science

Practice your understanding

Convert the following numbers into standard form:

1. 32 000
2. 0.0006
3. 104 000
4. 18 200 000
5. 9 230 000
6. 0.000 040 5
7. 0.002 019
8. 30 200

Convert the following numbers from standard form into decimal notation:

1. 3.26 × 104
2. 8.4 × 10–3
3. 7.29 × 107
4. 1.26 × 102
5. 8 × 10–6
6. 1.3 × 108
7. 2.3 × 10–4
8. 5.001 × 106
9. Using the formula Circumference = 2 × 3.14 × radius, and given that the mean radius of the Earth is 6 378 000 m, calculate the approximate circumference of the Earth leaving your answer in standard form to two significant figures.
10. There are 86 400 seconds in a day. Calculate the number of seconds in a year leaving your answer in standard form to two significant figures.
11. The current world population is approximately 7.4 × 109 people. The United Kingdom population accounts for 0.88% of the total world population. Using this information, approximate the number of people living in the United Kingdom leaving your answer as a decimal number.