



Task 1

- 1) Write 5,200 in standard form.
 5.2×10^3
- 2) Write 4.7×10^3 as an ordinary number.
 $4,700$
- 3) Write 8,900,000 in standard form.
 8.9×10^6
- 4) Write 3.1×10^5 as an ordinary number.
 $310,000$
- 5) Write 7,000 in standard form.
 7×10^3
- 6) Write 9.45×10^6 as an ordinary number.
 $9,450,000$
- 7) Write 1,020 in standard form.
 1.02×10^3
- 8) Write 82,000 in standard form.
 8.2×10^4
- 9) Write 4.002×10^7 as an ordinary number.
 $40,020,000$
- 10) Write 4 million in standard form.
 4×10^6

Task 2

- 11) Write 0.0035 in standard form.
 3.5×10^{-3}
- 12) Write 2.1×10^{-4} as an ordinary number.
 0.00021
- 13) Write 0.000009 in standard form.
 9×10^{-6}
- 14) Write 6.8×10^{-2} as an ordinary number.
 0.068
- 15) Write 0.045 in standard form.
 4.5×10^{-2}
- 16) Write 7.08×10^{-5} as an ordinary number.
 0.0000708
- 17) Write 0.00031 in standard form.
 3.1×10^{-4}
- 18) Write 5.03×10^{-3} as an ordinary number.
 0.00503
- 19) Write 0.00000042 in standard form.
 4.2×10^{-7}
- 20) Write 1.005×10^{-6} as an ordinary number.
 0.000001005

Task 3

- 21) The population of Town A is 3.2×10^5 and the population of Town B is 280,000. Which town has more people?
Town A has 320,000; Town A
- 22) Which is larger: 7.5×10^6 or 75,000,000?
 $75,000,000 = 7.5 \times 10^7$; **75,000,000**
- 23) A grain of sand has a mass of 5.6×10^{-4} grams. Write this in ordinary form.
0.00056 grams
- 24) Which is smaller: 0.00023 or 3.1×10^{-5} ?
 $3.1 \times 10^{-5} = 0.000031$; **3.1×10^{-5}**
- 25) A library has 8.09×10^4 books. Write the number of books as an ordinary number.
80,900 books
- 26) Which is larger: 4.3×10^{-4} or 0.00043?
 $4.3 \times 10^{-4} = 0.00043$
The numbers are equal.
- 27) The Sun is 1.496×10^8 km away from Earth. Write this distance as an ordinary number.
149,600,000 km
- 28) Which is larger: 2.15×10^3 or 21,500?
 $2.15 \times 10^3 = 2,150$; **21,500**
- 29) A virus is 0.000000075 m in length. Write this in standard form.
 7.5×10^{-8}
- 30) Write the following numbers in order of size, starting with the smallest number.
 5.2×10^2 0.0052×10^3 5200×10^{-4} 52
 $5.2 \times 10^2 = 520$
 $0.0052 \times 10^3 = 5.2$
 $5200 \times 10^{-4} = 0.52$

 5200×10^{-4} , **0.0052×10^3** , 52, 5.2×10^2
- 31) Write the following numbers in order of size, starting with the smallest number.
 48×10^0 4.8×10^2 0.048×10^5 480×10^{-2}
 $48 \times 10^0 = 48$
 $4.8 \times 10^2 = 480$
 $0.048 \times 10^5 = 4800$
 $480 \times 10^{-2} = 4.8$

 480×10^{-2} , **48×10^0** , 4.8×10^2 , 0.048×10^5

Challenge – Write the following numbers in standard form.

32) 24.6×10^4

2.46×10^5

33) 0.034×10^5

3.4×10^3

34) 267.8×10^8

2.678×10^{10}

35) 0.00067×10^2

6.7×10^{-2}

36) 0.000009×10^{-3}

9×10^{-9}

37) $7,000,000 \times 10^{-6}$

7×10^0

38) 0.000485×10^2

4.85×10^{-2}

39) 0.0021×10^{-7}

2.1×10^{-10}

40) $4,567,000 \times 10^{-4}$

4.567×10^2