Extra Content for Foundation GCSE



84. Understanding and Using Standard Index Form

Practice Questions

- 1. Write 5000 in standard form.
- 2. Express 0.0042 in standard form.
- 3. Convert $3.6 imes 10^3$ to normal form.
- 4. Convert $7.2 imes 10^{-2}$ to normal form.
- 5. Write 8,650,000 in standard form.
- 6. Express 0.000081 in standard form.
- 7. Multiply $(2 imes 10^4) imes (3 imes 10^2)$ in standard form.
- 8. Divide $(4 imes 10^6) \div (2 imes 10^3)$ in standard form.
- 9. Convert $9.1 imes 10^5$ to a normal number.
- 10. Express 0.00056 in standard form.

Scenario Questions

- 1. A spaceship travels at $3 imes 10^5$ km per hour. Convert this to normal form.
- 2. A bacteria population is $7.2 imes 10^8$. Express it as a normal number.
- 3. A planet is $9.1 imes 10^7$ km away from Earth. Convert this to normal form.
- 4. A computer chip processes $2.4 imes 10^6$ instructions per second. Convert this to normal form.
- 5. The Sun is $1.496 imes 10^8$ km from Earth. Write it as a normal number.
- 6. A cell measures $4.5 imes 10^{-6}$ m in diameter. Express it in decimal form.
- 7. A virus is $1.2 imes 10^{-9}$ m in size. Convert it to decimal form.
- 8. A scientific measurement is recorded as $5.6 imes10^3$ mm. Express it as a normal number.
- 9. A telescope detects a star $3.9 imes 10^{12}$ km away. Write it in full.
- 10. A lightwave has a frequency of $1.5 imes 10^{14}$ Hz. Convert it to normal form.

Extra Content for Foundation GCSE



crackmaths

84. Understanding and Using Standard Index Form

Practice Questions

- 1. $5 imes 10^3$
- 2. $4.2 imes 10^{-3}$
- 3. 3600
- 4. 0.072
- 5. $8.65 imes 10^6$
- 6. 8.1×10^{-5}
- 7. 6×10^{6}
- 8. $2 imes 10^3$
- 9. 910,000
- 10. $5.6 imes 10^{-4}$

Scenario Questions

- 1. 300,000 km/h
- 2. 720,000,000
- 3. 91,000,000 km
- 4. 2,400,000 instructions per second
- 5. 149,600,000 km
- 6. 0.0000045 m
- 7. 0.000000012 m
- 8. 5,600 mm
- 9. 3,900,000,000,000 km
- 10. 150,000,000,000,000 Hz