**Standard Form - mixed exercise**

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| Name : | Class : | Date : |

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| Mark : | /8 | % |

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| **1)** Rewrite as a normal number      a)  $7×10^{5}$     b)  $4.37×10^{-6}$ | [2]   |
| **2)** Rewrite in standard form      a) 9,300     b) 0.000003 | [2]   |
| **3)** Work out and express your answer in standard form      a)  $(7.7×10^{3})$  $+$  $(1.5×10^{3})$     b)  $(9×10^{-5})$  $×$  $(4×10^{4})$ | [2]   |
| **4)** Write in standard form        $30$  $×$  $10^{6}$ | [1]   |
| **5)** Use the information in the table to answer the questions below

|  |  |  |  |
| --- | --- | --- | --- |
| **Planet** | **Image** | **Mass (kg)** | **Distance to Sun (km)** |
| **Venus** | **http://www.mathster.com/assessment/qimages/Venus.jpg** | $4.87×10^{24}$ | $1.08×10^{8}$ |
| **Mercury** | **http://www.mathster.com/assessment/qimages/Mercury.jpg** | $3.3×10^{23}$ | $5.79×10^{7}$ |
| **Mars** | **http://www.mathster.com/assessment/qimages/Mars.jpg** | $6.42×10^{23}$ | $2.28×10^{8}$ |
| **Uranus** | **http://www.mathster.com/assessment/qimages/Uranus.jpg** | $8.68×10^{25}$ | $2.87×10^{9}$ |

     a) Which planet is lightest?     ..........     b) Which planet is furthest from the sun?     ..........      | [1]   |

**Solutions for the assessment Standard Form - mixed exercise**

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| **1)**  a) 700,000 |      b) 0.00000437 |
| **2)**  a)  $9.3×10^{3}$ |      b)  $3×10^{-6}$ |
| **3)**  a)  $9.2×10^{3}$ |      b)  $3.6×10^{0}$ |
| **4)**  $3×10^{7}$ | **5)** a) Mercury, b) Uranus |