**Estimation - Using 1 Significant Figure**

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| **1)** Estimate the answer by rounding each number to 1 significant figure first      a)     381.55  $+$ 163.85                   b)     472.41  $-$ 353.72                   c)     182.84  $×$ 8.3               | [7]   |
|      d)     129.66  $÷$ 1.3                   e)     2.19  $×$ 7.83  $÷$ 4.05                       f)     84.674  $×$ 0.219               |  |
|      g)     14.815  $÷$ 0.215               |  |
| **2)** Estimate the answer by rounding each number to 2 significant figures first      a)     859.38  $+$ 151.97                   b)     374.23  $-$ 281.65               | [2]   |
| **3)** Estimate the answer by rounding the base to 1 significant figure first            $27.27^{2}$         | [1]   |

**Solutions for the assessment Estimation - Using 1 Significant Figure**

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| **1)**  a) 400  $+$ 200 = 600Exact answer = 545.4 |      b) 500  $-$ 400 = 100Exact answer = 118.69 |
|      c) 200  $×$ 8 = 1600Exact answer = 1517.572 |      d) 100  $÷$ 1 = 100Exact answer = 99.7384615385 |
|      e) 2  $×$ 8  $÷$ 4 = 4Exact answer = 4.234 |      f) 80  $×$ 0.2 = 80  $÷$ 5 = 16Exact answer = 18.543606 |
|      g) 10  $÷$ 0.2 = 10  $×$ 5 = 50Exact answer = 68.9069767442 |  |
| **2)**  a) 860  $+$ 150 = 1010Exact answer = 1011.35 |      b) 370  $-$ 280 = 90Exact answer = 92.58 |
| **3)**  $30^{2}$ = 900Exact answer = 743.6529 |  |