## **Classified - Standard Form Answers**

2 Standard form 1.0) 4x104 b)  $5.6 \times 10^3$ c) 4.12 × 107 d) 8x10-8 e) 3.45 x 10-4 2. 3.7341 × 10'0 3. 4.12 × 10-13 4. No, because 6.212 is multiplied by Ios While 4.73 is multiplied by 109 and 10° is bigger than 10° 5.  $\frac{10^3}{2} = \frac{10 \times 10 \times 10}{2} = \frac{1000}{2} \times 500$ While  $5^3 = 5x5x5 = 125$ No, They are not the same 6. a) 5.2 x 103 6) 5.2 x 104 4) 5200000 d) 0.047

7 a) 7.6 x 108 b) 4.6 x 10-5 8. yes because 5x104 = 50000 While 6.7 × 103 = 6700 9.a) > c) >b) > d) >10. 3×10-2 = 0.03 While 4x10-3 = 0.004 Yes, 3x10-2 is greater 11.  $10^3 \times 10^3 = 10^1 \times 10^5$  $10^{6}$  =  $10^{3} \times 10^{7}$  $12 (3x 10^{2}) \times (5x 10^{6})$ = 15 × 108  $= 1.5 \times 10^{9}$ 13. 6.15 × 104 14 5×10-4

$15. 1.8 \times 10^{-5}$ m
16. Iceland
68000000
$(7. a) 66.3 \times 10^{6}$ = 6.63 × 10 <sup>7</sup>
b) 5.12 x 109 Km
18. 8.7 x 107
19.0)b= 104
b) a = 4
c) c = 12-4 = 8
d) d = 104
e) $e = 10^{6-3} = 10^3$
f) $f = 10^{6-1} = 10^{5}$

20. a)  $10^{2}$ b)  $10^{2}$ c)  $10^{6}$ d)  $10^{6}$