

3. (a) $1.156 = \boxed{1.156 \times 10^0}$
 (b) $21.8 = \boxed{2.18 \times 10^1}$
 (c) $0.0068 = \boxed{6.8 \times 10^{-3}}$
 (d) $27.635 = \boxed{2.7635 \times 10^1}$
 (e) $0.219 = \boxed{2.19 \times 10^{-1}}$
 (f) $444 = \boxed{4.44 \times 10^2}$

4. (a) $8.69 \times 10^4 = \boxed{86,900}$
 (b) $9.1 \times 10^3 = \boxed{9,100}$
 (c) $8.8 \times 10^{-1} = \boxed{0.88}$
 (d) $4.76 \times 10^2 = \boxed{476}$
 (e) $3.62 \times 10^{-5} = \boxed{0.0000362}$

5. The uncertainty is taken to be 0.01 m.

$$\% \text{ uncertainty} = \frac{0.01 \text{ m}}{1.57 \text{ m}} \times 100\% = \boxed{1\%}$$

6. $\% \text{ uncertainty} = \frac{0.25 \text{ m}}{3.76 \text{ m}} \times 100\% = \boxed{6.6\%}$

7. (a) $\% \text{ uncertainty} = \frac{0.2 \text{ s}}{5 \text{ s}} \times 100\% = \boxed{4\%}$
 (b) $\% \text{ uncertainty} = \frac{0.2 \text{ s}}{50 \text{ s}} \times 100\% = \boxed{0.4\%}$
 (c) $\% \text{ uncertainty} = \frac{0.2 \text{ s}}{300 \text{ s}} \times 100\% = \boxed{0.07\%}$

8. To add values with significant figures, adjust all values to be added so that their exponents are all the same.

$$\begin{aligned} 9.2 \times 10^5 \text{ s} + 8.3 \times 10^4 \text{ s} + 0.008 \times 10^6 \text{ s} &= 9.2 \times 10^5 \text{ s} + 83 \times 10^3 \text{ s} + 8 \times 10^3 \text{ s} = (9.2 + 83 + 8) \times 10^3 \text{ s} \\ &= 100 \times 10^3 \text{ s} = \boxed{1.00 \times 10^5 \text{ s}} \end{aligned}$$

When adding, keep the least accurate value, and so keep to the "ones" place in the parentheses.

9. $(2.079 \times 10^2 \text{ m})(0.082 \times 10^{-1}) = \boxed{1.7 \text{ m}}$. When multiplying, the result should have as many digits as the number with the least number of significant digits used in the calculation.

10. To find the approximate uncertainty in the area, calculate the area for the specified radius, the minimum radius, and the maximum radius. Subtract the extreme areas. The uncertainty in the area is then half this variation in area. The uncertainty in the radius is assumed to be $0.1 \times 10^4 \text{ cm}$.

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