

AP WORKSHEET 00B: ANSWERS

1.

- (a) 4
- (b) 6
- (c) 6
- (d) 4
- (e) 3
- (f) 5

2.

- (a) 367.7
- (b) 10.89
- (c) 444
- (d) 20.2
- (e) 8.9
- (f) 77

3. Captive zeros are always significant.

4. Leading zeros are never significant.

5. Trailing zeros are only significant in the presence of a decimal point.

6. Keep the answer to the same number of decimal places as the weakest piece of data.

7. Keep the answer to the same number of significant figures as the weakest piece of data.

8.

- (a) 1.4×10^2
- (b) 7.9×10^5
- (c) 33.09
- (d) 1.5
- (e) 1.3×10^4
- (f) 19.2

9.

- (a) 168
- (b) 0.0000457 or 4.57×10^{-5}
- (c) 23.0
- (d) 3.46
- (e) 7.90×10^3
- (f) 11.0

10.

- (a) 6
- (b) 3
- (c) 5
- (d) 2
- (e) 7
- (f) 4