

- (1) Numbers are usually written so that the uncertainty is in the last reported digit. (1 Point)
True False
- (2) If you count 7 pennies, you can only report one significant figure in that measurement. (1 Point)
True False
- (3) Exact numbers have an unlimited number of significant figures. (1 Point)
True False
- (4) Zeros located between two numbers are not significant. (1 Point)
True False
- (5) Zeros located after a number and after a decimal point are significant. (1 Point)
True False
- (6) Trailing zeros at the end of a number, but before an implied decimal point, are ambiguous. (1 Point)
True False
- (7) In multiplication and division calculations, the answer will have the same number of decimal places as the number carrying the fewest decimal places. (1 Point)
True False
- (8) In multiplication or division calculations, the answer will have the same number of decimal places as the number carrying the most decimal places. (1 Point)
True False
- (9) In addition or subtraction, the result carries the same number of decimal places as the quantity carrying the fewest decimal places. (1 Point)
True False
- (10) Scientific numbers are reported so that every digit is certain except the last, which is estimated. (1 Point)
True False
- (11) The mass of an object depends on gravity. (1 Point)
True False
- (12) The correct scientific notation for the number 0.00050210 is: (2 Point)
A) 5.0210×10^4
B) 5.021×10^{-4}
C) 5.021×10^4
D) 5.0210×10^{-4}
E) none of the above
- (13) The correct scientific notation for the number 500.0 is: (2 Point)
A) 5×10^2
B) 5.00×10^2
C) 5.000×10^2
D) 5×10^{-2}
E) none of the above

(14) The correct decimal representation of 1.201×10^{-7} is: (2 Point)

- A) 12010000
- B) 0.0001201
- C) 0.0000001201
- D) 1201.000
- E) none of the above

(15) The correct decimal representation of 6.453×10^3 is: (2 Point)

- A) 6,453
- B) 0.006453
- C) 6.5×10^3
- D) 6.453
- E) none of the above

(16) The correct number of significant figures in the number 1.250100 is: (2 Point)

- A) 5
- B) 7
- C) 4
- D) ambiguous
- E) none of the above

(17) The correct number of significant figures in the number " 9.080×10^{-4} " is (2 Point)

- A) 3
- B) 4
- C) 5
- D) ambiguous
- E) none of the above

(18) When the value 4.449 is rounded to two significant figures, the number should be reported as: (2 Point)

- A) 4.4
- B) 4.5
- C) 4.44
- D) 4.45
- E) none of the above

(19) Determine the answer for the equation below with correct number of significant figures:

$1.2 \times 1.79 = \underline{\hspace{2cm}}$ (2 Point)

- A) 2.148
- B) 2.15
- C) 2.1
- D) 2.2
- E) none of the above

(20) Determine the answer to the following equation with correct number of significant figures:

$$2.02 + 8.102 - 0.0297 = \underline{\hspace{2cm}} \quad (2 \text{ Point})$$

- A) 10.0923
- B) 10.09
- C) 10.1
- D) 10.092
- E) none of the above

(21) The correct prefix for the multiplier 1,000 is: (2 Point)

- A) mega.
- B) milli.
- C) micro.
- D) nano.
- E) none of the above

(22) What is the standard SI unit for mass? (2 Point)

- A) kilogram
- B) gram
- C) pound
- D) ton
- E) none of the above