Significant Figures Practice:

1. How many significant figures are in each of the following measurements?

 a. 120km b. 0.788cm c. 2020.0kg

 d. 0.051N e. 6x104m f. 37100200s

 g. 520m/s h. 5.20x102m/s i. 520.0m/s

 j. 400kg k. 0.006400m l. 930N

 m. 12.00m/s2 n. 100100J o. 0.0002330C

2. Perform the following operations. Report your answers with the correct number of sig figs, and proper units.

 a. 6.8cm + 87.6cm + 9.9cm + 42.3cm

 b. 1200kg+26kg+12.73kg

 c. 46s + 133s + 75s - 54s + 16s

 d. 148m/s – 141m/s

 e. (336kg)(2.0m)

f. 14cm(5.0cm)(6cm)

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 g. (12)6.886 + 9.04(5.557)

 h. $\frac{125N(0.60m)}{2.6664s}$

 i. $\frac{15m^{2}}{45m}$

j. $\frac{(8.6kg+7.2kg+6.5kg)}{16.24h}$

k. A bicycle travels 17.6km in 38 minutes. Find the average speed of the bicycle in km/h.

 l. A farmer finds the masses of several apples as follows: 237g, 288g, 304g, 356g, 199g, 328g, 266g, 277g.

 Find the average mass.

 m. A type of rubber ball has a mass of 23.62g. What is the mass of 12 of these balls.

 n. 62.22

 o. (16.0m/s)(4.0s)+ ½(3.00m/s2)(4.0s)2

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