Name:	Date:	
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QUIZ - SIGNIFICANT FIGURES

1. (16%) State the number of significant figures	1.	(16%)	State the	number	of sig	gnifican	it figure
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- a. 1.3412
- b. 0.0310
- c. 10.3
- d. 40.01

2. (16%) Round the number 12.354 to

- a. 1 significant figure: _____
- b. 2 significant figures _____
- c. 3 significant figures _____
- d. 4 significant figures _____

3. (10%) Write the number 966000 in with 2 significant figure

- 4. (10%) Write the number 0.000966 with 1 significant figure
- 5. (20%) The energy of an object is calculated by $E = \frac{1}{2}mv^2 + mgh$, where:

g is the gravitational constant, $g = 10 \text{ m/s}^2$

h is the height of the object above the ground in meters.

v is the speed of the object in m/s

m is the mass of the object in kg

Calculate the energy of a bird whose weight is 500g, flying 100m above ground in a speed of 12.5 m/s.

- a. (10%) Give the answer correct to 3 significant figures.
- b. (10%) Give the answer correct to 3 decimal places.

- 6. (28%) An airplane is flying in circles around an airport waiting for landing. If the radius of the circle he is flying in is 20km, find:
 - a. (12%) The distance traveled after 2 complete rounds. Give the answer correct to 3 significant figures.
 - b. (16%) 12km further away from the airport another airplane is also flying in circles waiting for its turn to land. Find the distance traveled by this airplane in 1 round. Give the answer correct to 3 decimal places.