|  |  |  |
| --- | --- | --- |
| Significant figures  EHS Cλ3MIs+rγ  Mr. Genest |  | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  visit http:genest.weebly.com |

1. Convert 788 Mg to grams: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Convert 911.77 kg to mg: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Circle any things below that have INFINITE significant figures.

the shoe is 38.8 cm long

there are 4 crows in the tree

the tree is 9 meters tall

**Determine the number of significant figures in the following measurements. Or write ‘Infinite’ if there are infinite significant figures**

1. 100.1 g \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 473 mL\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 0.002 m\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. 4200 km\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. 330 mL of Pepsi \_\_\_\_\_\_\_\_\_\_\_
6. 0.11010 L\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. 104.20 g\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. 4 cans of Coke
9. 1,700,000 km\_\_\_\_\_\_\_\_\_\_\_\_\_
10. Circle any things below that have INFINITE significant figures.

one student weighs 88.5 kg and the other weighs 90.0 kg

1 meter is the same as 100 cm

1 dozen daisies is 12 daisies

East high school contains 3,449,339 bricks

There are 28 students in the room

**Round each of the following to 3 significant figures**.

1. 2.396 g\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 6.333 g\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 2.500 g\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. 3.805 g\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. 23.15 g\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. 16.2455 m\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. 93.45 cm \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. 21.15 cm\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Determine the number of significant figures in the following measurements. Or write ‘Infinite’ if there are infinite significant figures**

1. 0.00020 kg\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 44 mice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 842.0 cm\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. 44 grams of mouse fur \_\_\_\_\_\_\_\_
5. 640,002 m\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. 10,000 s\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. 190.60 g\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. 1.0004230 g\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Convert 45.66 mL to μL: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Round each of the following to 3 significant figures**.

1. 1.2793 kg\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 0.10625 kPa\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 0.0037486 m\_\_\_\_\_\_\_\_\_\_\_\_
4. 0.01245 s\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. 0.10652 g\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. 0.048449 ns\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. 0.20000 L\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. 101.00 fs\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. 0.112453 g\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

39)0.010010 L\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_