Significant figure practice #2 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ch. 3 Period \_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_

**How many significant figures are in the following measurements?**

1. \_\_\_\_\_ 5.432 6. \_\_\_\_\_ 429.3 11. \_\_\_\_\_ 2500 16. \_\_\_\_\_ 8365.6
2. \_\_\_\_\_ 40.319 7. \_\_\_\_\_ 2873.0 12. \_\_\_\_\_ 2500.0 17. \_\_\_\_\_ 0.002300
3. \_\_\_\_\_ 146 8. \_\_\_\_\_ 99.9 13. \_\_\_\_\_ 1.04 X 1014 18. \_\_\_\_\_ 7.500 X 10-4
4. \_\_\_\_\_ 3.285 9. \_\_\_\_\_ 0.000235 14. \_\_\_\_\_ 3.58 X 10-9 19. \_\_\_\_\_ 3.92 X 108
5. \_\_\_\_\_ 0.189 10. \_\_\_\_ 144 15. \_\_\_\_\_ 48.57193 20. \_\_\_\_\_ 1.00 X 103

**Add, using significant figures:**

1. 12 cm + 0.031 cm + 7.969 cm = \_\_\_\_\_\_\_\_\_
2. 0.085 cm + 0.062 cm + 0.14 cm = \_\_\_\_\_\_\_\_\_\_\_\_\_
3. 3.419 g + 3.912 g + 7.0518 g + 0.00013 g = \_\_\_\_\_\_\_\_\_\_\_
4. 30.5 g + 16.82 g + 41.07 g + 85.219 g = \_\_\_\_\_\_\_\_\_
5. 143.0 cm + 289.25 cm + 68.45 cm + 6.00 cm = \_\_\_\_\_\_\_\_\_\_\_\_\_
6. 29.49 cm + 83.46 cm + 107.05 cm + 26.618 cm = \_\_\_\_\_\_\_\_\_
7. 0.0653 g + 0.08538 g + 0.07654 g + 0.0432 g = \_\_\_\_\_\_\_\_\_\_\_
8. 1.8 X 10-2 cm + 3.25 X 10-5 cm + 4.6 X 10-5 cm = \_\_\_\_\_\_\_\_\_\_\_
9. 63.489 mL + 126.2 cL + 68.85 L + 12.05 hL = \_\_\_\_\_\_\_\_\_\_\_\_\_ L
10. 2.3 X 102 g + 4.62 X 102 mg + 3.852 X 102 cg = \_\_\_\_\_\_\_\_\_\_\_\_ g

**Subtract, using significant figures:**

1. 41.025 cm – 23.28 cm = \_\_\_\_\_\_\_\_\_\_\_\_ cm 4. 62.47 g – 39.9 g = \_\_\_\_\_\_\_\_\_\_\_\_ g
2. 289 g – 43.7 g = \_\_\_\_\_\_\_\_\_\_\_\_\_ g 5. 40.008 mL – 29.0941 mL = \_\_\_\_\_\_\_\_\_\_\_ mL
3. 145.63 mL – 28.9 mL = \_\_\_\_\_\_\_\_\_\_\_\_ mL

**Multiply, using significant figures:**

1. 2.89 cm X 4.01 cm = \_\_\_\_\_\_\_\_\_\_\_\_\_ 9. (4.8 X 102 m) X (2.101 X 103 m) = \_\_\_\_\_\_\_\_\_\_
2. 17.3 cm X 6.2 cm = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. (9.13 X 10-4 cm) X (1.2 X 10-3 cm) = \_\_\_\_\_\_\_
3. 3.08 m X 1.2 m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 11. 4.218 cm X 6.5 cm = \_\_\_\_\_\_\_\_\_\_\_\_\_
4. 5.00 mm X 7.3216 mm = \_\_\_\_\_\_\_\_\_\_\_ 12. 150.0 m X 4.00 m = \_\_\_\_\_\_\_\_\_\_\_\_\_
5. 20.8 dm X 123.1 dm = \_\_\_\_\_\_\_\_\_\_\_\_\_ 13. 282.2 km X 3.0 km = \_\_\_\_\_\_\_\_\_\_\_\_\_
6. 5 cm X 5 cm = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 14. (14 X 10-8 m) X (3.25 X 10-6 m) = \_\_\_\_\_\_\_\_\_
7. 5.0 cm X 5 cm = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 15. (2.865 X 104 m) X (1.47 X 103 m) = \_\_\_\_\_\_\_\_
8. 5.0 cm X 5.0 cm = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Divide, using significant figures:**

1. 8.0271 cm2 ÷ 4.216 cm = \_\_\_\_\_\_\_\_\_\_ 4. 1.142 X 1014 mm ÷ 5.813 X 1012 mm = \_\_\_\_\_\_
2. 109.3758 m2 ÷ 5.813 m = \_\_\_\_\_\_\_\_\_\_ 5. 139.482 m2 ÷ 68.75 m = \_\_\_\_\_\_\_\_\_\_
3. 24,789.4 km2 ÷ 43.5 km = \_\_\_\_\_\_\_\_\_\_\_ 6. 4.23 m2 ÷ 18.941 m = \_\_\_\_\_\_\_\_\_\_\_