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## Round Up or Round Off?

In order to write the correct number of significant figures, it is frequently necessary to drop some figures. When rounding numbers, obey the following statistical rules:

Look at the figure **following** the one that you wish to be last. This is the first figure to be dropped.

1. When that figure is **less than 5**, the preceding figure is kept without change.
2. When that figure is **greater than 5**, the preceding figure is increased by 1.
3. When that figure is **5**, round so that the last figure you keep is an even number.

**Directions:** Round the following numbers as indicated.

To four figures:

- |                                 |                    |
|---------------------------------|--------------------|
| 1. $2.16347 \times 10^5$ _____  | 4. 7.2518 _____    |
| 2. $4.000574 \times 10^6$ _____ | 5. 375.6523 _____  |
| 3. 3.682417 _____               | 6. 21.860051 _____ |

To two figures:

- |                 |                                |
|-----------------|--------------------------------|
| 7. 3.512 _____  | 10. $2.751 \times 10^8$ _____  |
| 8. 25.631 _____ | 11. $3.9814 \times 10^5$ _____ |
| 9. 40.523 _____ | 12. 22.494 _____               |

(continued)

Name \_\_\_\_\_

Date \_\_\_\_\_

## Round Up or Round Off? (*continued*)

To the nearest whole number:

13. 56.912 \_\_\_\_\_

16. 0.5182 \_\_\_\_\_

14. 3.4125 \_\_\_\_\_

17. 112.511 \_\_\_\_\_

15. 251.7817 \_\_\_\_\_

18. 63.541 \_\_\_\_\_

To one decimal place:

19. 54.7421 \_\_\_\_\_

22. 79.2588 \_\_\_\_\_

20. 100.0925 \_\_\_\_\_

23. 0.9114 \_\_\_\_\_

21. 1.3511 \_\_\_\_\_

24. 0.2056 \_\_\_\_\_

To the nearest thousandth:

25. 5.687524 \_\_\_\_\_

27. 104.97055 \_\_\_\_\_

26. 39.861214 \_\_\_\_\_

28. 41.86632 \_\_\_\_\_