

ROUNDING DECIMAL FRACTIONS

The process of rounding a decimal is like rounding a whole number. An approximate value is given to a certain decimal fraction. In the following examples, the place value to which the number is being rounded is underlined.

Examples:

1. To the nearest whole number: $\underline{6}.158$ rounds to 6
2. To the nearest tenth: $0.\underline{7}2$ rounds to 0.7
3. To the nearest hundredth: $4.\underline{65}5$ rounds to 4.66
 $0.\underline{33}33$ rounds to 0.33
4. To the nearest thousandth: $4.45\underline{6}19$ rounds to 4.456
 $0.31\underline{2}9$ rounds to 0.313
5. To the nearest ten-thousandth: $3.601\underline{9}5$ rounds to 3.6020
 $0.814\underline{3}39$ rounds to 0.8143

Round each of the following to the nearest:

Tenth:

- | | | | | | |
|----|--------|-------|----|-------|-------|
| 1. | 0.261 | _____ | 3. | 4.505 | _____ |
| 2. | 0.3921 | _____ | 4. | 6.119 | _____ |

Hundredth:

- | | | | | | |
|----|--------|-------|----|---------|-------|
| 5. | 0.7854 | _____ | 7. | 8.2369 | _____ |
| 6. | 3.1416 | _____ | 8. | 0.40404 | _____ |

Thousandth:

- | | | | | | |
|-----|---------|-------|-----|--------|-------|
| 9. | 32.6152 | _____ | 11. | 2.6154 | _____ |
| 10. | 9.89815 | _____ | 12. | 0.3555 | _____ |

Ten-thousandth:

- | | | | | | |
|-----|---------|-------|-----|---------|-------|
| 13. | 2.14141 | _____ | 15. | 6.88934 | _____ |
| 14. | 0.26194 | _____ | 16. | 0.93926 | _____ |

Whole number:

- | | | | | | |
|-----|-------|-------|-----|------|-------|
| 17. | 6.82 | _____ | 19. | 1.23 | _____ |
| 18. | 5.199 | _____ | 20. | 0.7 | _____ |