

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 | _____ |