

### Rounding Practice

Rounding is the process of reducing the number of significant digits in a number. The result of rounding is a "shorter" number having fewer non-zero digits yet similar in magnitude. The result is less precise but easier to use.

#### The Common Method

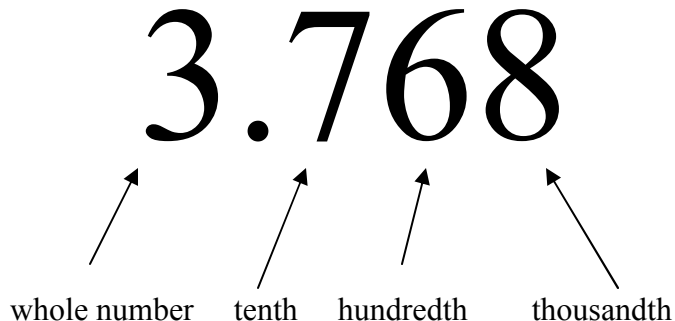
This method is commonly used in mathematical applications, for example in accounting. It is the one generally taught in elementary mathematics classes.

#### Steps

- \* Decide which is the last digit to keep.
- \* Increase it by 1 if the next digit is 5 or more (this is called rounding up)
- \* Leave it the same if the next digit is 4 or less (this is called rounding down)

#### Examples

- \* 3.044 rounded to hundredths is 3.04 (because the next digit, 4, is less than 5).
- \* 3.045 rounded to hundredths is 3.05 (because the next digit, 5, is 5 or more).
- \* 3.0447 rounded to hundredths is 3.04 (because the next digit, 4, is less than 5).



#### Practice

Round to the **whole number**

<p>a) 5.78964875 = _____</p> <p>b) 9.78745860 = _____</p> <p>c) 8.4586593 = _____</p> <p>d) 1.4434332 = _____</p>	<p>e) 8.97866738 = _____</p> <p>f) 189.76825 = _____</p> <p>g) 18.0000456 = _____</p> <p>h) 3.412312 = _____</p>
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Round to the nearest **tenth**

i) 5.78964875 = _____	m) 8.97866738 = _____
j) 9.78745860 = _____	n) 189.76825 = _____
k) 8.4586593 = _____	o) 18.0000456 = _____
l) 1.4434332 = _____	p) 3.412312 = _____

Round to the nearest **hundredth**

q) 5.78964875 = _____	u) 8.97866738 = _____
r) 9.78745860 = _____	v) 189.76825 = _____
s) 8.4586593 = _____	w) 18.0000456 = _____
t) 1.4434332 = _____	x) 3.412312 = _____

Round to the nearest **thousandth**

y) 5.78964875 = _____	cc) 8.97866738 = _____
z) 9.78745860 = _____	dd) 189.76825 = _____
aa) 8.4586593 = _____	ee) 18.0000456 = _____
bb) 1.4434332 = _____	ff) 3.412312 = _____