

Big Cube – the base-10 manipulative that represents 1,000



big cube



flat



long



cube

Base-10 Shorthand

Make Change by Counting Up – a way to make change by starting at the price of the item purchased and counting up to the amount of money used to purchase the item

I purchase an orange for 18¢.

I pay with a quarter (25¢).

Make Change by Counting Up:

- **Count up from 18 to 25**
- **19, 20, 21, 22, 23, 24, 25**
- **My change is 7 cents**

Cube/Ones, 1s - the base-10 manipulative that represents 1



big cube



flat



long



cube

Base-10 Shorthand

Decimal Point – a mark used to separate the ones and tenths places in decimals. Also separates dollars from cents.

36.753



decimal point

\$13.92



decimal point

Flat/Hundreds/100s - the base-10 manipulative that represents 100



big cube



flat



long



cube

Base-10 Shorthand

Long/Tens/10s - the base-10 manipulative that represents 10



big cube



flat



long



cube

Base-10 Shorthand

Parentheses – brackets used to set off two or more numbers being added, subtracted, multiplied or divided; in order of operations, expressions inside parentheses are calculated first

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Place Value – a system that gives a digit a value according to its position or place in a number; in our standard base-10 decimal system, each place has a value 10 times that of the place to its right and 1 tenth the value of the place to its left

| Millions | Hundred-Thousands | Ten-Thousands | Thousands | Hundreds | Tens | Ones |
|----------|-------------------|---------------|-----------|----------|------|------|
| | | | | | | |

Ten-thousands/10,000s - in our base-10 system, the place that represents 10 thousands



| Millions | Hundred-Thousands | Ten-Thousands | Thousands | Hundreds | Tens | Ones |
|----------|-------------------|---------------|-----------|----------|------|------|
| | | | | | | |

Thousands/1,000s - in our base-10 system, the place that represents 10 hundreds



| Millions | Hundred-Thousands | Ten-Thousands | Thousands | Hundreds | Tens | Ones |
|----------|-------------------|---------------|-----------|----------|------|------|
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