


Dimensional Analysis Part 1: Fruit Salad

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Dimensional Analysis

- Dimensional Analysis involves using equalities as a conversion factor (which are a form of 1) to change the unit of a measurement to another unit.
- IMPROTANT: The value before the conversion is equal to the value after the conversion.

Conversion Factors

- A conversion factor is an equality that is put as a fraction ….. It is equal to 1.

Fruit Salad

Fruit Equalities

Fruit Conversion Factors:

8 kiwis = 5 peaches
4 strawberries = 2 kiwis
2 limes = 7 strawberries
3 pears = 6 limes
1 apple = 4 pears

- If I have 28 pears, how many apples can I get.

Fruit Conversion Factors:

8 kiwis = 5 peaches
4 strawberries = 2 kiwis
2 limes = 7 strawberries
3 pears = 6 limes
1 apple = 4 pears

- If I have 20 strawberries, how many limes can I get?

Fruit Conversion Factors:

8 kiwis = 5 peaches
4 strawberries = 2 kiwis
2 limes = 7 strawberries
3 pears = 6 limes
1 apple = 4 pears

- If I have 14 limes, how many kiwi can I get?

Fruit Conversion Factors:

8 kiwis = 5 peaches
4 strawberries = 2 kiwis
2 limes = 7 strawberries
3 pears = 6 limes
1 apple = 4 pears

- If I have 12 peaches, how many strawberries can I get

Fruit Conversion Factors:

8 kiwis = 5 peaches
4 strawberries = 2 kiwis
2 limes = 7 strawberries
3 pears = 6 limes
1 apple = 4 pears

Metric Dimensional Analysis

- If 1 m = 100 cm & and 1000 m = 1 km
- How many cm in 0.02 km?