WARM-UP...



Chinook winds are known to cause great changes in temperature over a short period of time. The most extreme temperature change in a 24-hour period occurred in Loma, Montana, on January 17, 1972. The temperature rose from -54 °F to 49 °F.

a) What was the change in temperature in degrees Fahrenheit?

103°F

49- (-54)

b) What was the maximum/minimum temperatures in degrees

Celsius?

Min: -47.8℃

Max: 9.4℃

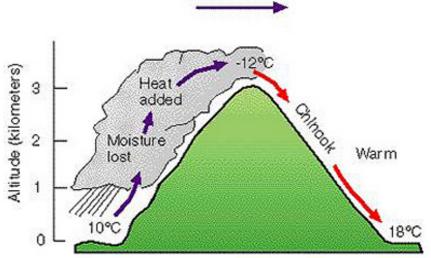
-54-32 -86 Ans*5/9 -47.77777778 5/9(49-32) 9.444444444 A Chinook wind ia a warm, dry wind that blows east of the Rocky Moutains, often causing significant temperature increases in a short time in winter.

F= 9C+ 32

X

c) What was the change in temperature in degrees Celsius?





Strong Wind

5.2 Mass in the Imperial System

- Mass a measure of the quantity of matter in an object.
 - "the amount of stuff".
 - in an imperial system the 'slug' is a measure of mass.
 - * use of the pound is commonly used as a measure of mass.
- Weight a measure of the force of gravity on an object.
 - in an imperial system the pound is a measure of weight.

1 oz - a slice of bread

1 lb - football

1 tn - an adult bison

*** Compared to the SI system...

kg = 2.2 lbs

Mass vs. Weight

Mass - a measure of the quantity of matter in an object.

Weight - a measure of the force of gravity on an object.

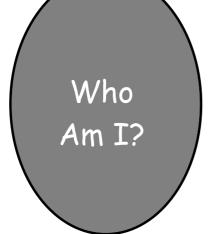
So does this mean your mass changes when you travel to the moon or does your weight change?





What does a scale measure?









Conversions Between Imperial Mass Units

16 oz = 1 lb

Try these conversions:

EXAMPLE 1: 1802

Kelly needs 1 pound 2 ounces of Gruyere cheese, 12 ounces of cheddar cheese, and 11 ounces of Swiss cheese for a fondue recipe. How manypounds of cheese does she need in all?

$$= \frac{1197}{197} = \frac{1195}{1657} = \frac{2195}{1657} = \frac{2195}{165$$

Solution is... 2 lb 9 oz

EXAMPLE 2:



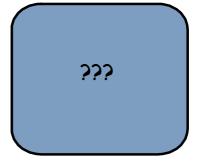
The cab of Andy's semi-trailer weighs 8.7 tons and the trailer weighs 6.4 tons. If the loaded gross weight of the truck is 21.3 tons, what is the weight of load in...

- a) tons?
- b) pounds?

a) 21.3 6,4 6,4 6,2 ta Solutions are... a) 6.2 tons & b) 12 400 lbs

EXAMPLE 3:

180t



HOMEWORK...

5.2 Worksheet - Mass in an Imperial System.docx

5.2 Worksheet - Mass in an Imperial System.docx