Account Balance

Balance is 1
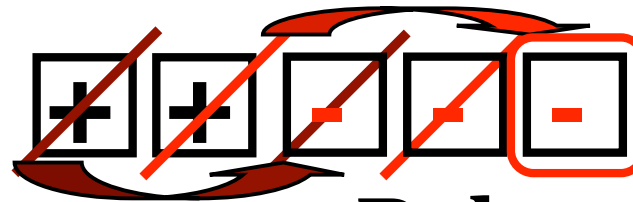
Balance is - 1

ASD pw 2011

Ambiguous

What does it mean?

more than 1 meaning

$$7 - 2 + 1$$

$$\boxed{7 - 2} + 1 = 6 \quad (5)$$

or

$$7 - \boxed{2 + 1} = 4 \quad (3)$$

ASD pw 2011

Axis plural **Axes**

2 intersecting number lines used to form a coordinate grid

axes

ASD pw 2011

Base 5^3 Exponent
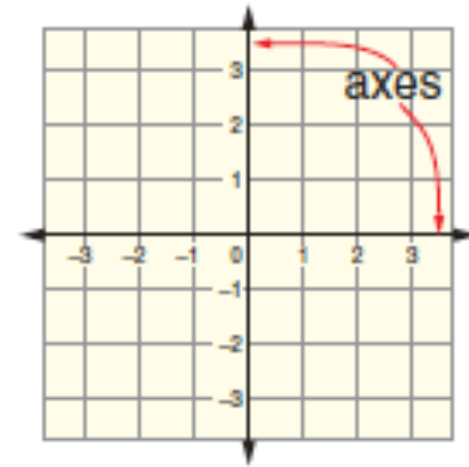
the number raised to a power

$5 * 5 * 5 = 125$

how many times the base is used as a factor

ASD pw 2011

Change Sign Key

positive to negative
or
negative to positive

Debt

You owe more money than you have.

You are in the red!

Expanded Notation

Show the sum of the values of the digits.

$3,000 + 500 + 3 = 3,502$

$3 * 1000 + 5 * 100 + 3 = 3,502$

Exponential Notation

Show repeated multiplication by the same factor.

5^4

$5 * 5 * 5 * 5$

Expression

A group of mathematical symbols which may include numbers, variables, operations symbols and grouping symbols; but never a relation symbol (> = <)
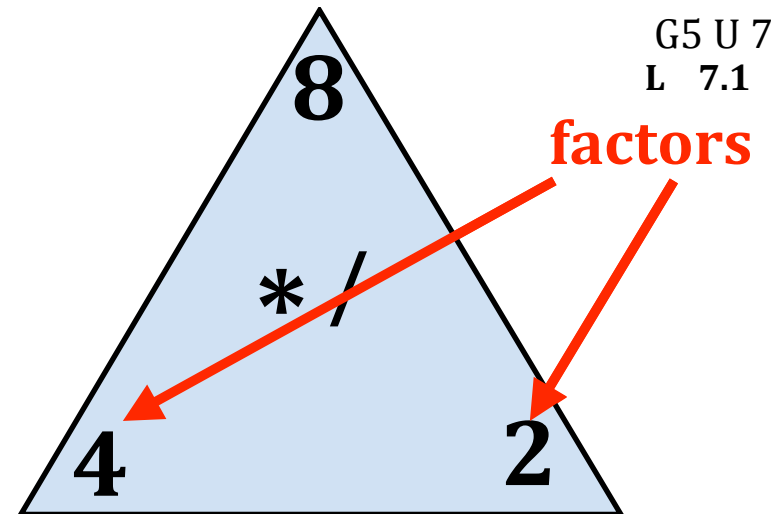
| 3 (8 – 2) | 3 n | 4x + 5t |

ASD pw 2011

Factor

any number multiplied by another number to give a product

factors

8

* /

4   2

ASD pw 2011

Slide Rule

Integer Slider

Slider fits inside holder

Integer Holder
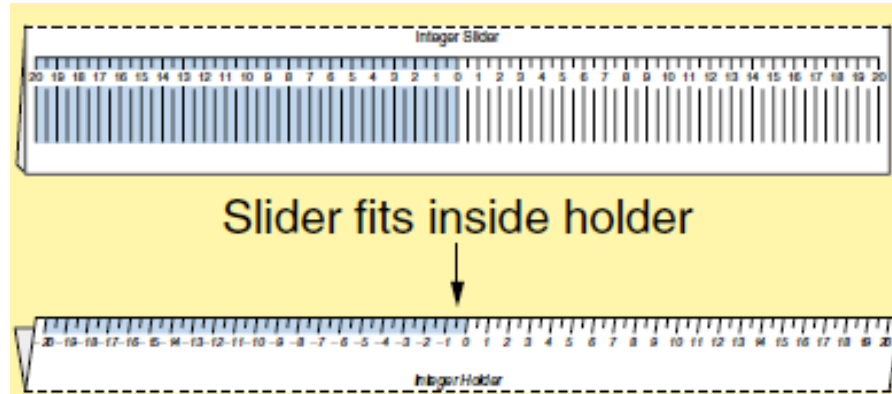
a tool used to add and subtract fractions and integers

ASD pw 2011

In the Black

more <u>positive</u> than negative

You <u>have more money</u> than you owe.

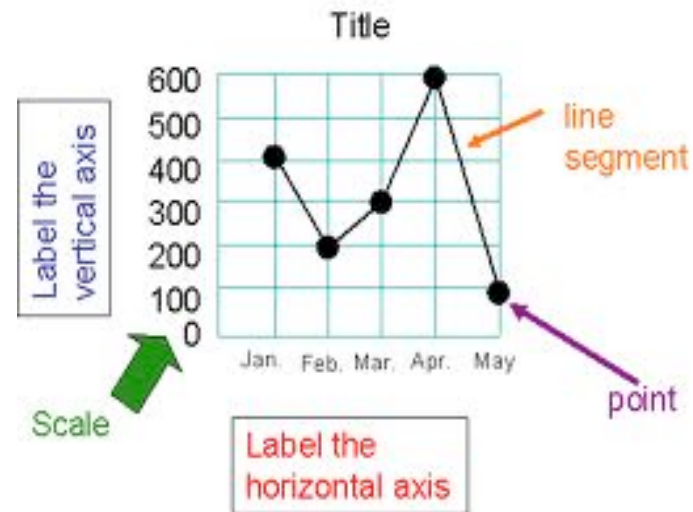> **Why is the day after Thanksgiving called BLACK FRIDAY?**

ASD pw 2011

In the Red

more **negative** than positive

You **owe more money** than you have.

You are in debt!

ASD pw 2011

Line Graph

same as broken line graph

Title

Label the vertical axis

line segment

point

Scale

Label the horizontal axis

Jan. Feb. Mar. Apr. May

ASD pw 2011

Negative Number

less than 0

to the left of 0

on the horizontal number line

-7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7

ASD pw 2011

Nested Parentheses

parentheses inside parentheses

Clear the inside set of parentheses first.

$$((24 \div 6) * 5) + 2 =$$

$$(4 * 5) + 2 =$$

ASD pw 2011

Number-and-Word-Notation

36 billion for 36,000,000,000

24 and 7 thousandths for 24.007

ASD pw 2011

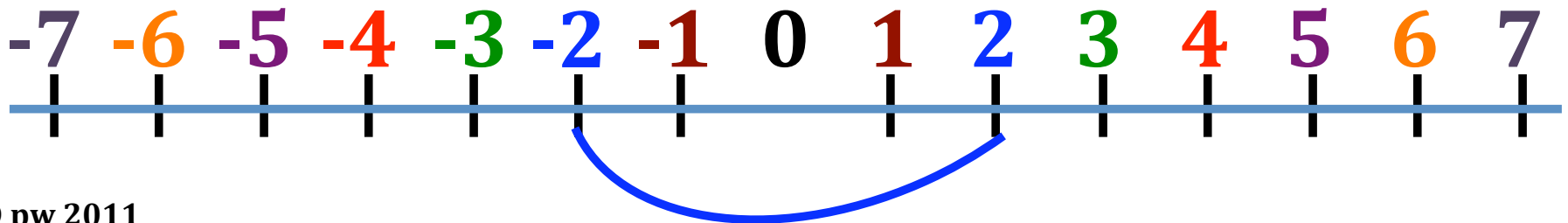# Opposite of a Number

Same distance on **other side of 0** on the number line

-7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7

ASD pw 2011

Order of Operations

1. Clear parentheses from inside out.

2. Compute exponents.

3. Multiply or divide in order.

4. Add or subtract in order.

ASD pw 2011

---

1. $2^2 * (2 * 3^2) \div 9 + (4 \div 2) + 3 * 6 =$

2. $2^2 * (2 * 9) \div 9 + 2 + 3 * 6 =$

3. $4 * 18 \div 9 + 2 + 3 * 6 =$

4. $72 \div 9 + 2 + 3 * 6 =$

5. $8 + 2 + 18 = 28$

An example of order of operations

ASD pw 2011

Positive Powers of 10

$10^1 = 10$ $10^2 = 100$ $10^3 = 1000$

$10 * 10$ $10 * 10 * 10$

ASD pw 2011

Power of a Number

5 to the third power. 5^3 Note the exponent.

ASD pw 2011

Scientific Notation

Product of a whole number and a power of 10

$$40{,}000 = 4 * 10^4$$

ASD pw 2011

Standard Notation

One digit in each place
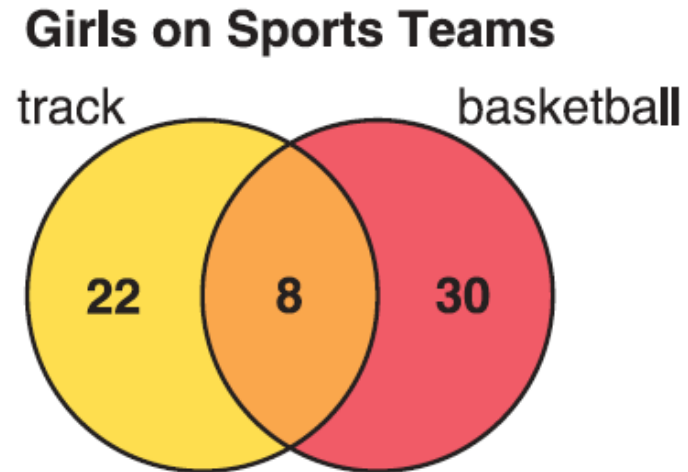
476,000

ASD pw 2011

Trend
change over time

Temperature at Noon

°Fahrenheit / Days of the Week
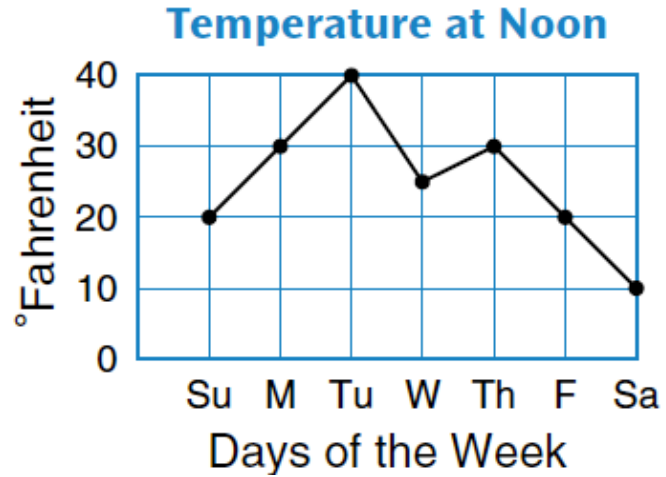
Over time, the temperature has dropped.

Venn Diagram

Girls on Sports Teams

track   basketball

22   8   30