

### Review of Homework 22

1. A musketeer has three hats, four tabards, and two pairs of boots. How many different costumes can he wear? (tabard is a sleeveless jerkin consisting only of front and back pieces with a hole for the head.)
2. In a restaurant you can order a cheese platter for \$15. You can choose 3 different kinds of cheeses out of 15. How many ways are there to create such a cheese platter?
3. I have a choice of 20 new books to read during my 5 day vacation. I want to read 1 book every day. How many ways are there to choose these 5 books? (the order does not matter)
4. There are 20 students in the 4<sup>th</sup> grade math team. How many ways are there to choose a team of 4 students from the class of 20 for the Suffolk County Olympiad?
5. Write the following series of arithmetic operations and find the final answer:
  - 1) Raise  $1\frac{1}{2}$  to the power of 3.
  - 2) From the result of step 1 subtract  $1\frac{3}{4}$ .
  - 3) Divide the resulting difference by  $4\frac{7}{8}$ .
  - 4) Divide  $2\frac{2}{3}$  by  $10\frac{1}{2}$ .
  - 5) Multiply the result of step 4 by  $1\frac{5}{16}$ .
  - 6) Subtract the result of step 5 from the result of step 3

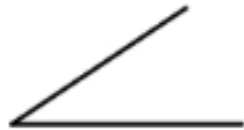
$$3(x - 1) < 5x + 9$$

$$2x - 1 > -x + 3$$

**Angles** are geometric shapes formed by two rays that begin at the same point

### How to measure angles using a protractor?

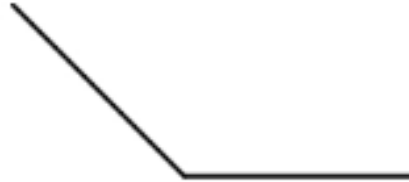
#### Types of Angles



Acute angles equal  
0-89 degrees.

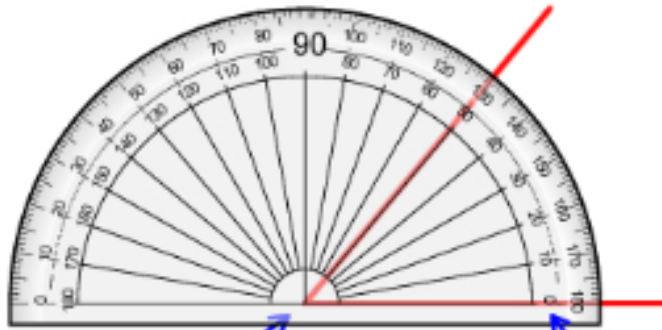


Right angles equal  
exactly 90 degrees.



Obtuse angles equal  
91-179 degrees.

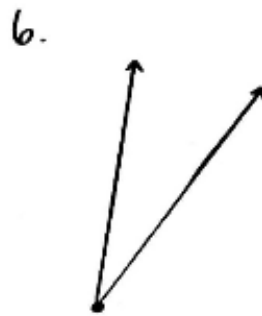
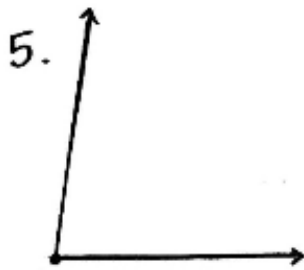
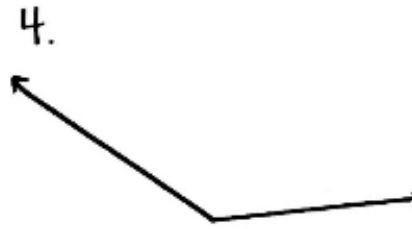
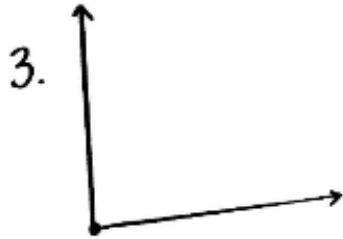
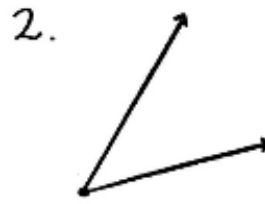
Line up the bottom of the protractor with bottom line of the angle.



Don't forget to make  
sure the vertex of the  
angle is lined up with  
the center of the  
protractor.

Start at the zero  
and read up.

Double check your measurement.  
Does your answer match the type of angle you are measuring?



**Triangles:**

**Median, height, bissector**