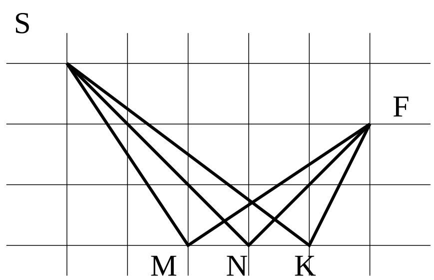
MATH FOR KIDS
September 20, 2004

(1) When a tourist group plots their first day's trip on a map, it is an interval 3 cm long. The second day's trip is an interval 15 mm long. On which day the tourists covered the larger distance and how much times larger?

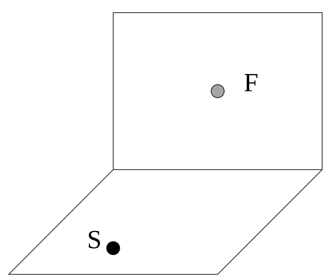
(2) A map's scale is 1:300,000. How many km are represented by 1 cm on this map?

(3) How many cm^2 are in m^2? How many mm^2 are in cm^2? How many m^2 are in km^2? How many in^2 are in ft^2?

(4) Which path SMF, SNF, or SKF from a spider S to a fly F is shorter?



(5) The spider S sits on the floor, while the fly F sits on the wall near the line l separating floor and wall (see picture). What is the shortest path the spider should run to catch the fly?



(6) Draw an interval of length 1 inch using only a 5×7 inch index card.