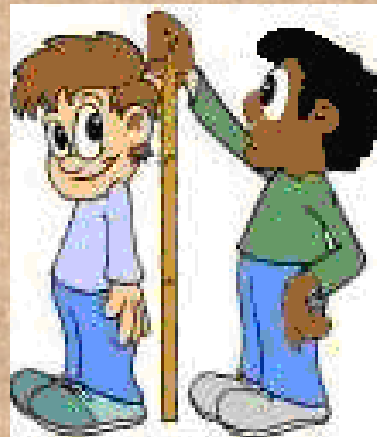


Lab~

"Determining Length Using the Meter Tape"

Problem: How do we use a meter tape to determine our body's measurements?



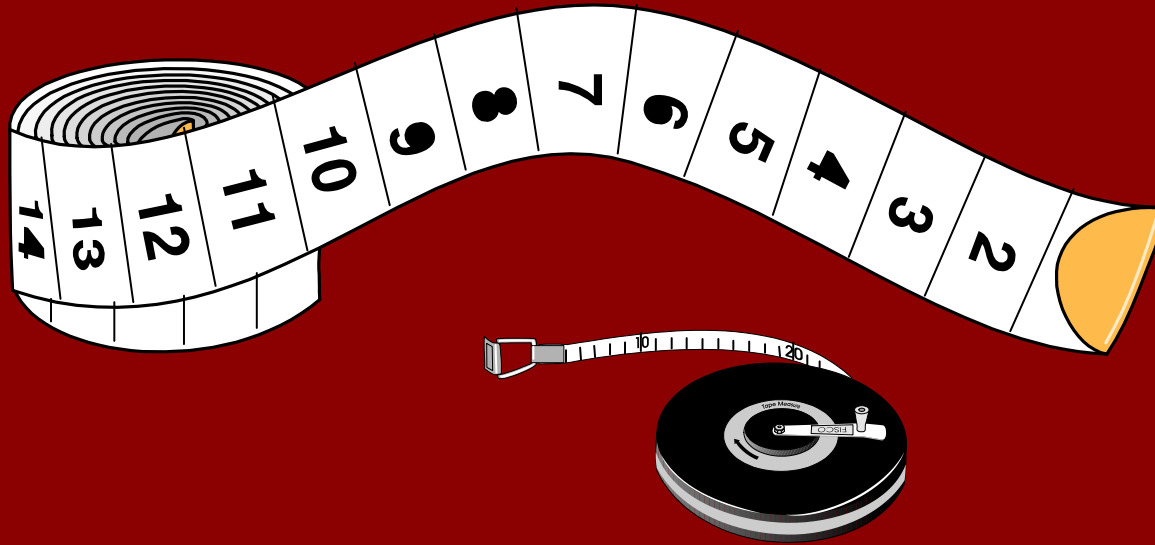
1. What is length?

2. How many cm are in 1 m?

3. Which is the most appropriate metric unit for determining the length of a refrigerator?

4. What tools do we use for determining the length of various items?

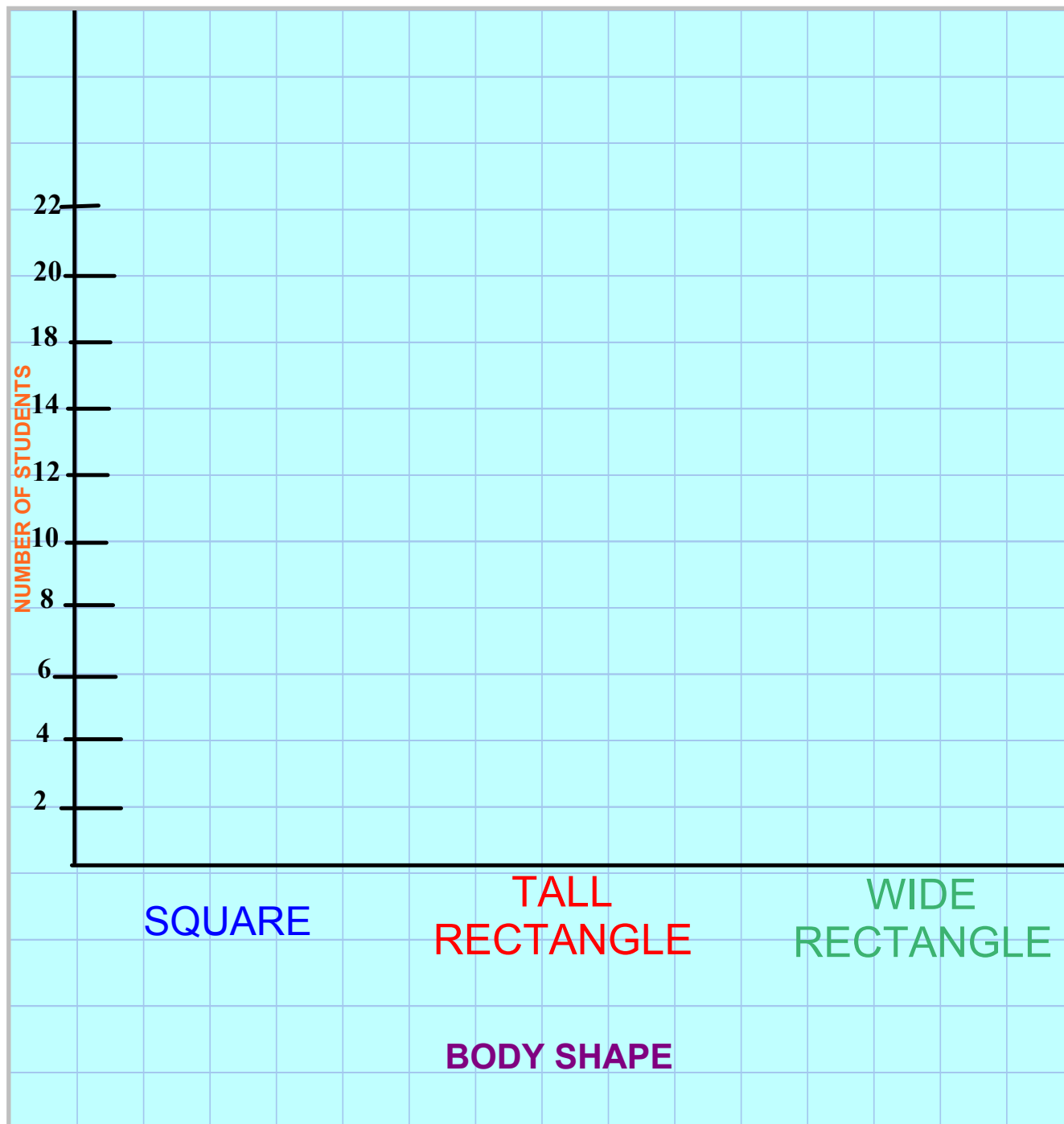
Click and drag the names that identify the tools...



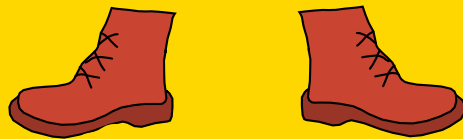
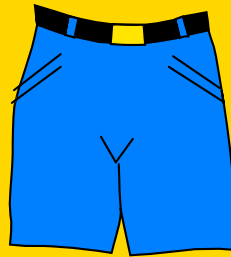
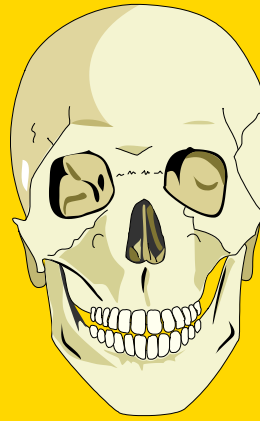
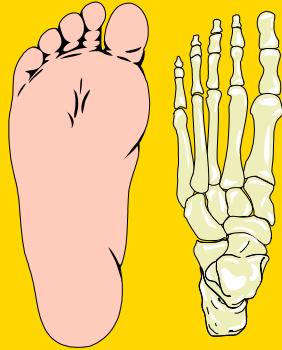
Meter Tape

Meter Tape

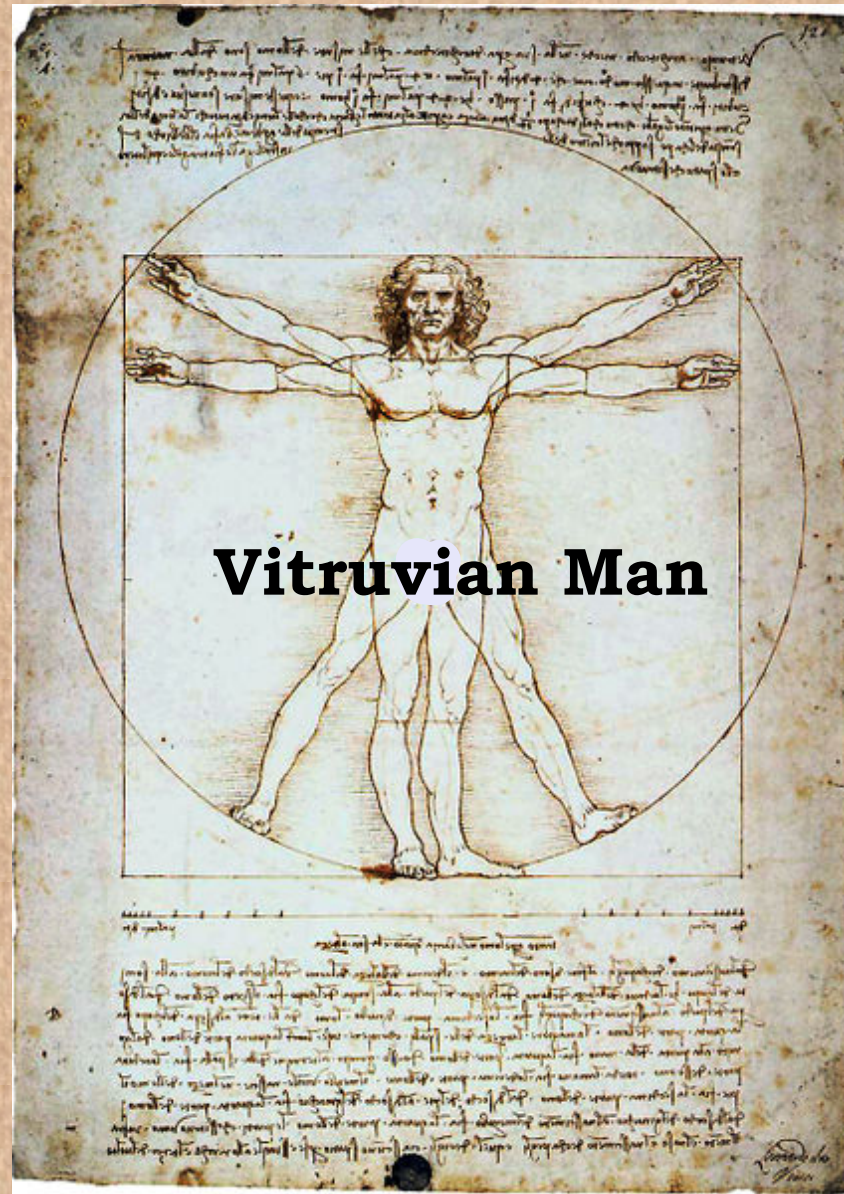
Metric Ruler



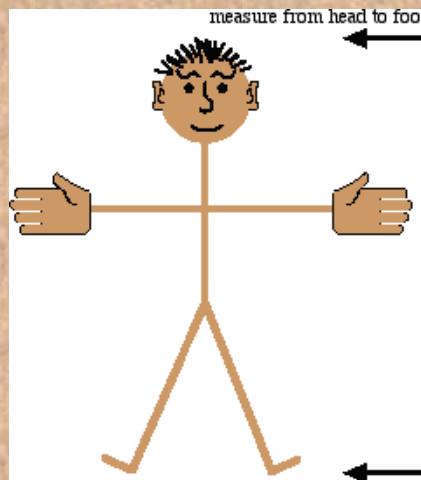
what's the best tool for the job?
Use the magic eraser to find out...



Leonardo Da Vinci's



Da Vinci's Vitruvian man is named for Roman architect, Vitruvius, whose work was based largely on the proportions of the human body which both men believed to be perfect. When we view Da Vinci's drawing, we can conclude that the length of a man's arm span is equal to his height. The ratio of Vitruvian man's arm span to his height equals one. It was believed that the extended arms and legs of a perfectly proportioned human fit into both the square and the circle and were of ideal proportion.



Was Leonardo Da Vinci correct?

You do the math...

- a palm is the width of four fingers
- a foot is the width of four palms
- the length of a man's outspread arms is equal to his height
- the distance from the hairline to the bottom of the chin is one-tenth of a man's height
- the distance from the top of the head to the bottom of the chin is one-eighth of a man's height
- the maximum width of the shoulders is a quarter of a man's height
- the distance from the elbow to the tip of the hand is one-fifth of a man's height
- the distance from the elbow to the armpit is one-eighth of a man's height
- the length of the hand is one-tenth of a man's height
- the distance from the bottom of the chin to the nose is one-third of the length of the head
- the distance from the hairline to the eyebrows is one-third of the length of the face
- the length of the ear is one-third of the length of the face