

The experimental devices used to measure the angle of the sun are analysed and the results compared to the theorical values.

They are classified, and evaluated.

The issues are identified, and solutions are proposed to improve the measures

Gnomon of about 1m, fixed on a base, laid on the ground

Gnomon of about 1m, fixed the side of the base

Gnomon of about 1m, with spirit level or triangle

Gnomon: About 1 meter plumb line

Gnomon of about 1m, held with hand

Large base and thin top gnomon

Gnomon of about 1m, planted in the ground

Small height gnomon

Direct measure of the angle with a protractor

Gnomon with stable and wide base

Gnomon fixed on a board

Spirit level used as gnomon

Ready made gnomon

Lego gnomon

Artistic gnomon

Gnomon of about 1m, fixed on a base, laid on the ground

Verticality 🏖

Origin of shadow

Precision &









Gnomon of about 1m, fixed the side of the base

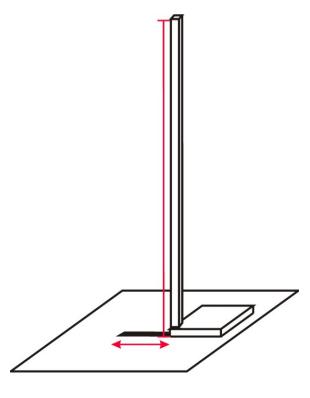
Verticality 🏖











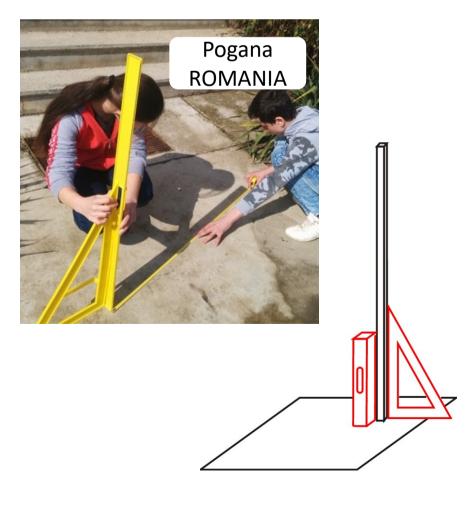
Gnomon of about 1m, with spirit level or triangle

Verticality 🗳 🗳





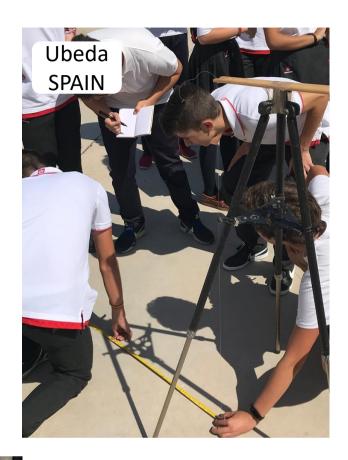


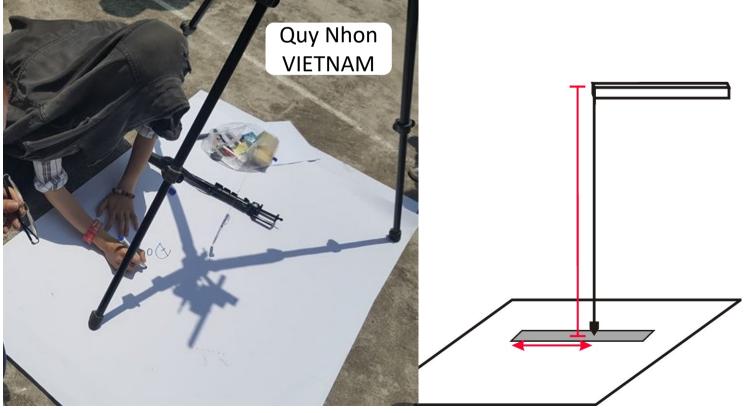


Gnomon: About 1 meter plumb line

Verticality







Gnomon of about 1m, held with hand

Verticality 🕏 🗣











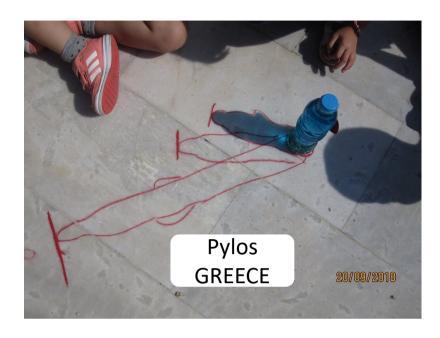
Large base and thin top gnomon

Verticality 🏖

Origin of shadow 🔊 🔊 Precision 🗳

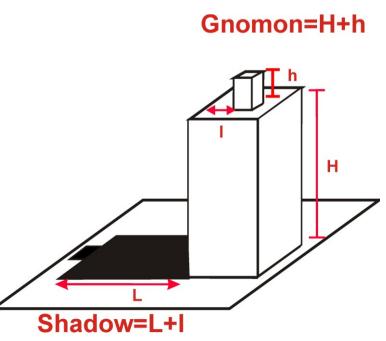












Gnomon of about 1m, planted in the ground

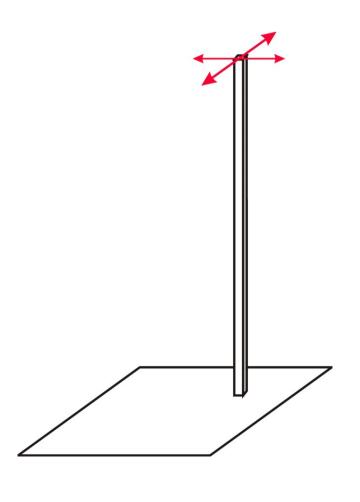
Verticality 🗣











Small height gnomon

Verticality 🏖

Origin of shadow



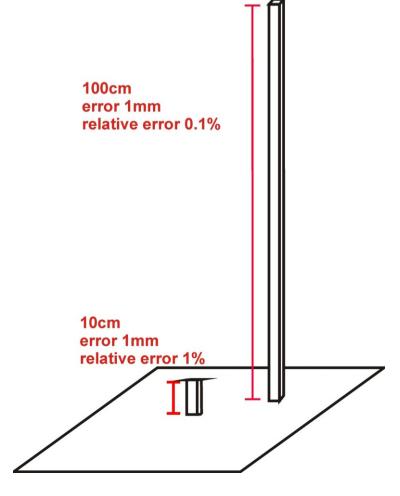
Precision 🗣











Direct measure of the angle with a protractor

Verticality 🏖

Origin of shadow

Precision \$

Athens

GREECE

Calculation with tan-1= shadow/gnomon: +/- 0,1°

Measure with protractor: +/- 0,5°





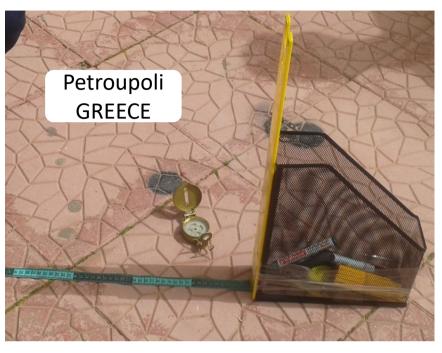




Gnomon with stable and wide base

Verticality













Gnomon fixed on a board

Verticality 🕹 🗳









Spirit level used as gnomon

Verticality

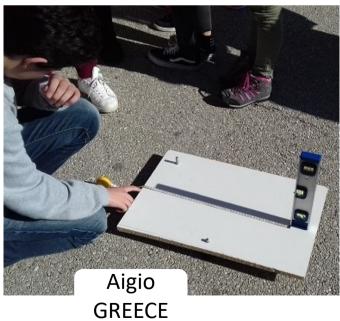
Origin of shadow

Precision &









Ready made gnomon

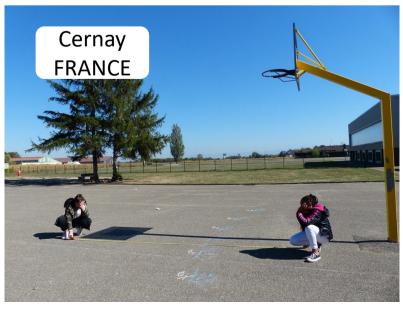
Verticality

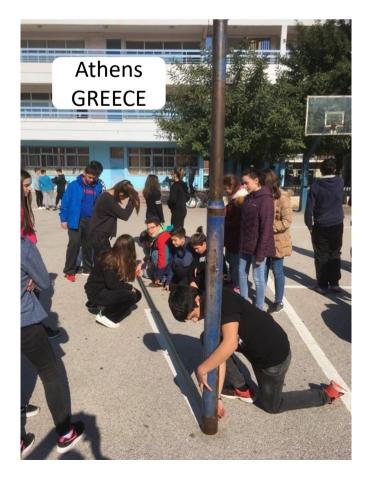
Origin of shadow

Precision &









Lego gnomon

Verticality 🕹 🕹

Origin of shadow

Precision 🗳 🗳









Artistic gnomon

Verticality 🗳

Origin of shadow 🗳

Precision 🕏













