

Calculating the height of a building

<http://www.virtualmaths.org/activities/shapes/theod2>

Virtualmaths

www.virtualmaths.org

DIY CLINOMETER

* Things you'll need

- Some string
- A coin or similar weight
- Scissors
- Glue
- Adhesive tape

- 1 Cut along the dashed line and separate the clinometer shape from this template sheet.
- 2 Carefully punch a hole at the center point of the protractor. Make sure the hole is just large enough to pass your piece of string through - the larger the hole, the less accurate the readings!
- 3 Now fold along the line that attaches the rectangle shape to the protractor, creating a hinge.
- 4 Apply some glue to the gray marked area and roll the rectangle to form your scope.
- 5 Apply some adhesive tape to the scope hinge to add strength.
- 6 Cut off about a foot length of string and thread it through the hole you created earlier. Now take the length you passed through and tie some knots in it so it is held in place and can't pass back through the hole.
- 7 Take a coin or another weighted object and stick it with adhesive tape, to the other side of the string creating a plumb-line.

