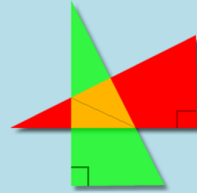


Handy Trig Ratios

By Mike Ollerton

Page 1 of 1



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INTRODUCTION

This aide-memoir for trig ratios will probably be 'old hat' to some folk but it was new to me. I picked up the following idea during some work I did in Mongolia when I asked a small group of teachers/teachers trainers to present their best idea for use in the equivalent of A-level classrooms. Tsogtolmaa presented the following idea.

MATHEMATICAL CONTENT

- Trigonometry
- Surds
- Fractions

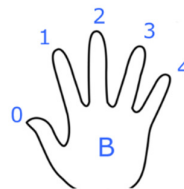
APPLICABILITY

KS4 – KS5

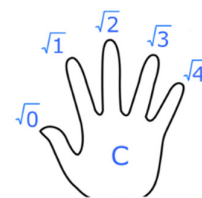
Step A Draw around a hand



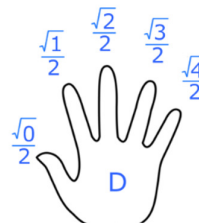
Step B Designate the values 0, 1, 2, 3 and 4 to the thumb and fingers



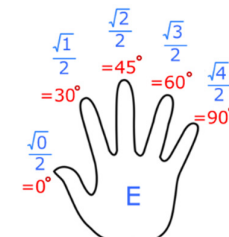
Step C Take the square root of each of these assigned values



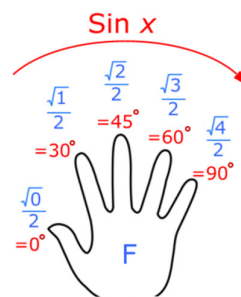
Step D Divide each of these by 2



Step E Allocate angles 0°, 30°, 45°, 60° and 90°



Step F Label the direction of travel for Sin(x)



Step G Label the direction of travel for Cos(x) and change the angles

