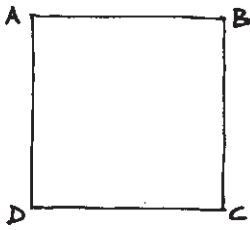
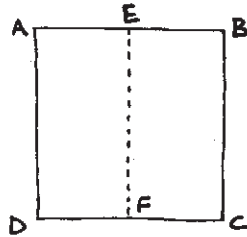


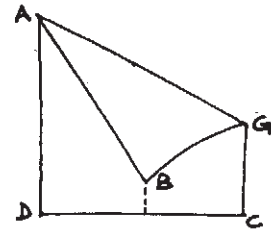
## PAPER PROTRACTOR



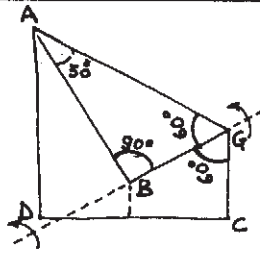
1. Take a 10 cm x 10 cm piece of square paper (ABCD).



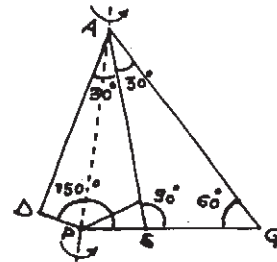
2. Fold along its middle line EF.



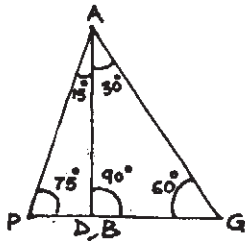
3. Fold corner B and move it up and down on mid-line EF until line BA passes through the left-hand corner A. Crease AG.



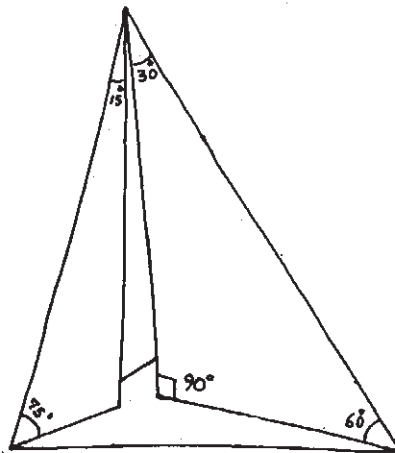
4. By doing this angle AGB will become 60 degrees. In triangle ABG, angle A is a corner of a square (90 degrees), angle AGB is 60 so the remaining angle BAG will be 30 degrees. Now fold the lower triangle along line BG and tuck it below triangle ABG.



5. Bring edges AD and AB together so as to bisect angle DAP (30 degrees) into half. Now angle PAB will be 15 degrees.



6. As angle ABP is a right angle being a corner of a square so the remaining angle APB will be 75 degrees.



7. Now we have a beautiful paper protractor with angles of 15, 30, 45, 60, 75 and 90 degrees marked on it. Corners P (75 degrees) and G (60 degrees) can always be opened and doubled to make angles of 150 and 120 degrees. So, next time if you forget your geometry box, there isn't much to worry about. Just fold a paper protractor.