

ACTIVITY 7.2

Page Sizes

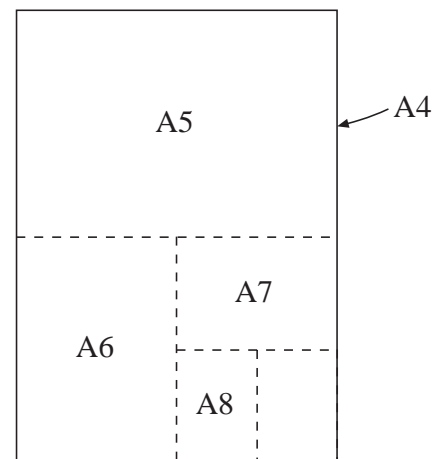
The UK adopted the European sizes for paper some time ago!

Paper is now usually produced and sold in the sizes

A0, A1, A2, . . . , A10

You are probably familiar with the A4 size, which is the usual size for photocopying paper; A5 is half the size of A4; A6 half the size of A5, etc: the sketch below illustrates these facts.

1. Measure the width and length of an A4 sheet of paper to the nearest millimetre.
2. From your A4 sheet of paper, accurately cut out
A5, A6, A7, A8, A9 and A10
sizes of paper. For each size, measure the width and length to the nearest millimetre.
3. Calculate the ratio of length : width for each size.
What do you notice?
4. What is the relationship between the length of A4 and width of A5, length of A5 and width of A6, etc ?



Extension

Deduce the dimensions of an A0 size of paper.

ACTIVITY 7.1 - 7.2

Notes for Solutions

Notes and solutions given only where appropriate.

7.1 2. 13p, 10p, 8p, 7p

3. (a) 65p, £1.95, £3.90

(b) 14p, 35p, £1.05

7.2 1. and 2. Approximate sizes are:

<i>A</i>	<i>Length (mm)</i>	<i>Width (mm)</i>
4	297	210
5	210	148
6	148	105
7	105	74
8	74	52
9	52	37
10	37	26

3. Constant ratio of about 1 : 1.4 (in fact, 1 : $\sqrt{2}$).

4. Length of A4 : width of A5 = 2 : 1

Length of A5 : width of A6 = 2 : 1

Extension

Using $\sqrt{2}$ as the ratio, the dimensions are 1188 mm and 840 mm.