

ACTIVITY 1

To represent the products of decimal numbers such as (i) 0.7×0.3 (ii) 0.5×0.5 on a square sheet.

Learning Objective : To understand the multiplication of decimal numbers.

Pre-requisites : Knowledge of fractions.

Materials Required : Sketch pens, square paper, pencil and a ruler.

Procedure :

Step 1. Take a square sheet of paper.

Step 2. Divide this square into 10 equal parts by drawing horizontal lines as shown in Fig. 1(a). Each part represents $1/10 = 0.1$

Step 3. Shade 7 parts out of 10 so as to represent 0.7 as in fig. 1(b)

Step 4. Now draw, 9 vertical lines on the same paper at equal distances such that each vertical

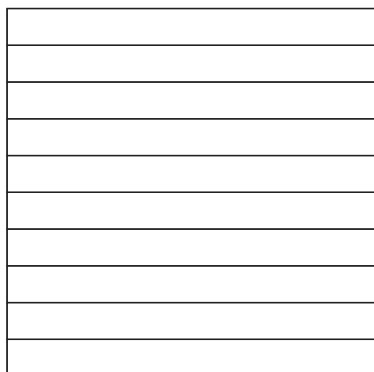


Fig 1(a)

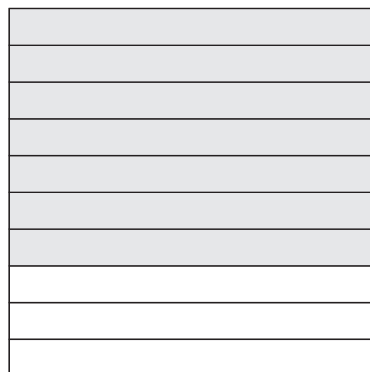


Fig 2(b)

part represents $1/10$ or 0.1 as in Fig. 1(c).

Step 5. Shade 3 vertical parts so as to represent 0.3 as shown in Fig. 1(d).

Step 6. The double shaded portion represents the product 0.3×0.7 .

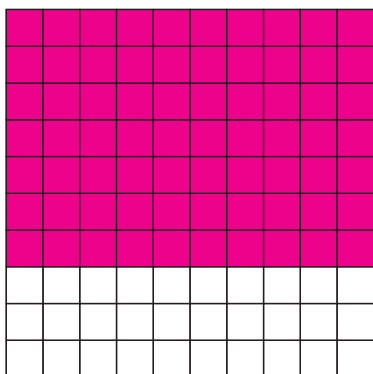


Fig 1(c)

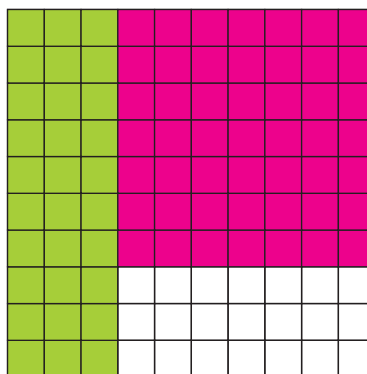


Fig 1(d)



Step 7. Follow the above Steps to represent the product 0.5×0.5 . using another square sheet.

Observations :

- (i) The square sheet has been divided into equal parts.
- (ii) The number of equal parts in the double shaded portion is
- (iii) The double shaded portion represents the product $0.5 \times \dots\dots\dots$ which is equal to
- (iv) The product $0.5 \times 0.5 = \dots\dots\dots$