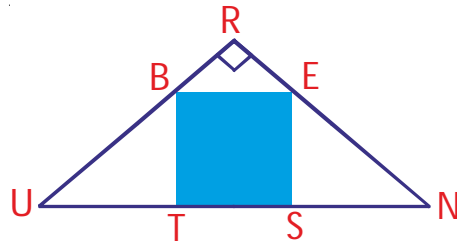


**01**

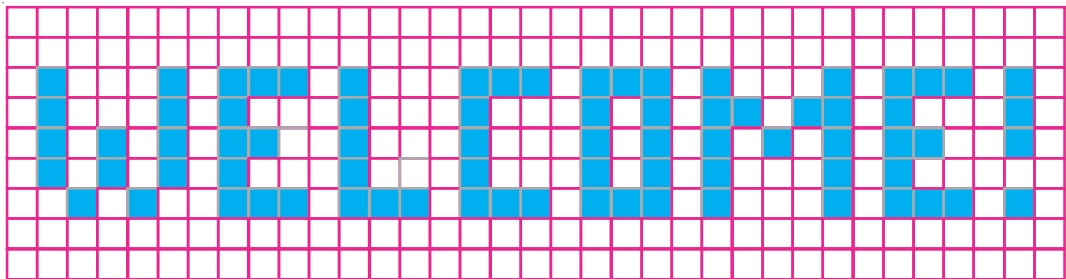
**BEST is a square. Given that RUN is a right-angled isosceles triangle of area  $81 \text{ cm}^2$ , find the area of BEST.**



Your solution here:

**02**

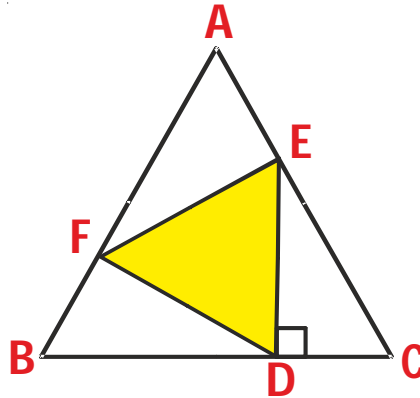
Hari is preparing a welcome banner for his elder brother who is coming home from abroad. Find the area covered by the letters. Use the given scale to help you with your computations. Answer the following questions below.



- What is the total area of the banner ?
- What is the area covered by all the letters including the exclamation mark ?
- What is the area of the white space ?
- How did you get the area covered by the letters ?

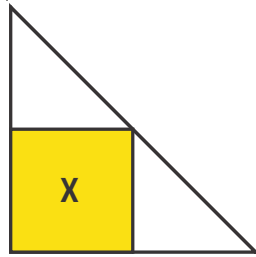
Your solution here:

**03** An equilateral triangle DEF is inscribed in an equilateral triangle ABC as shown with ED perpendicular to BC. Find the ratio of the area of DDEF to the area of DABC.

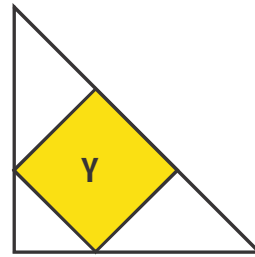


Your solution here:

**04** There are two ways to inscribe a square in a given right-angled isosceles triangle as shown in figures (i) and (ii). Find the ratio of the area of square X to the area of square Y.



*Figure (i)*



*Figure (ii)*

Your solution here:

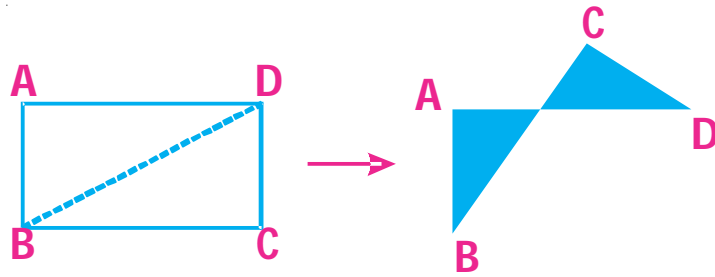
**05** A rectangular strip of paper is divided into areas of  $6 \text{ cm}^2$  and  $16 \text{ cm}^2$  as shown in the given figure, and it is folded along the dotted line. If the shaded area A is three times that of B, find the unshaded area in the resulting figure.



Your solution here:

**06**

In the given figure, rectangle ABCD is folded along its diagonal BD. If the area of the newly formed figure is  $40 \text{ cm}^2$  and the area of ABCD is  $62 \text{ cm}^2$ , find the area of the shaded region.



Your solution here: