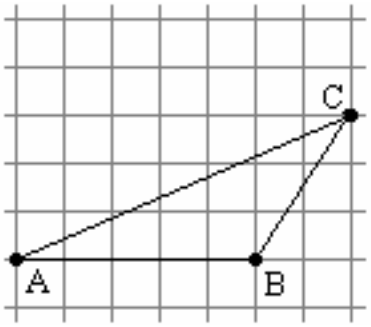
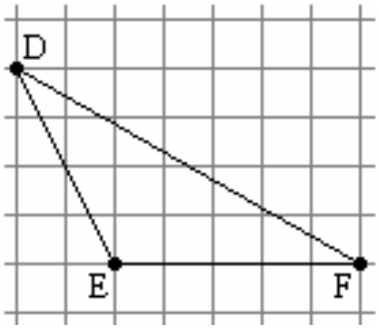
## ✐ Practice Exercises

1. Area of ΔABC = _____




2. Area of ΔDEF = _____



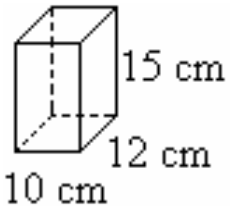

3. The width of a square field is a whole number of feet. Which of the following could possibly be the area of the field?

__ A. 854 sq.ft. __ B. 956 sq.ft. __ C. 20,560 sq.ft. __ D. 22,500 sq.ft.

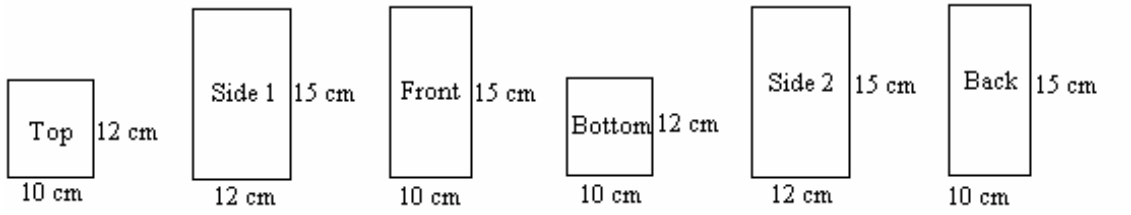
## Surface Area

What is it? The surface area of a polyhedron is the sum of the area of its faces.

Example: Find the surface area (S.A.) of the box with the dimensions shown.




Draw a sketch of each of the surfaces.




S.A. = $2(10 \times 12) + 2(12 \times 15) + 2(10 \times 15)$ = 240 sq.cm. + 360 sq.cm. + 300 sq.cm. = 900 sq.cm.
S.A. = $2lw + 2wh + 2lh = 2(lw + wh + lh)$

## Volume

Volume of a rectangular prism = length × width × height. $V = lwh$

Example: The volume of the above box is: $V$ = 12 cm × 14 cm × 24 cm = 4,032 cubic cm