Surface Area of Prisms

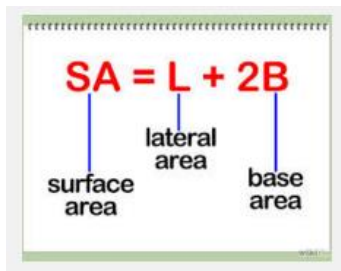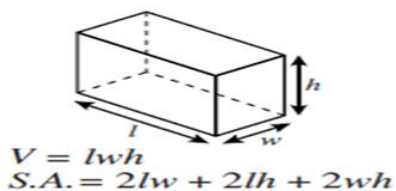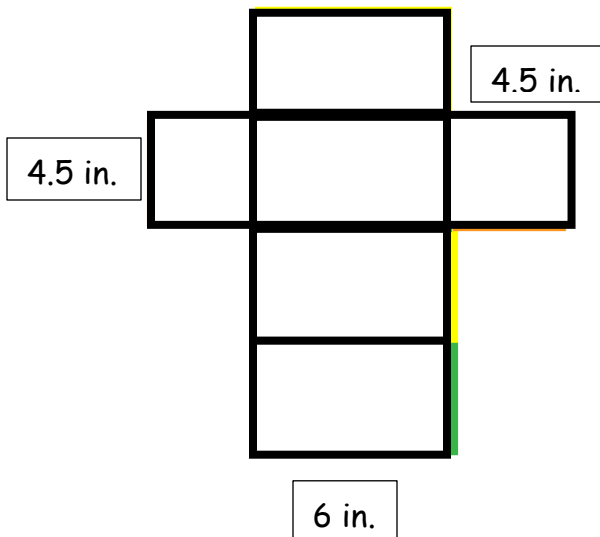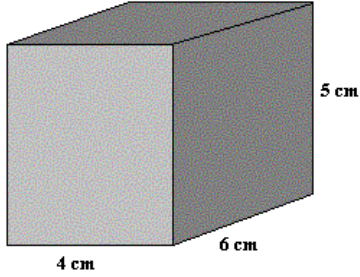A. This is a net of a triangular prism. Find the surface area of the triangular prism below. Find the area in square centimeters of each part, then add all of them together.
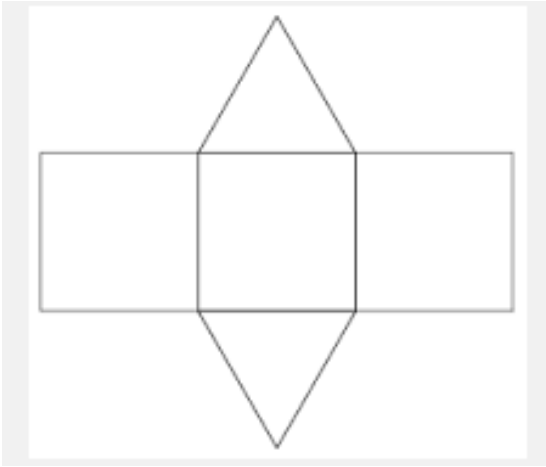
B. This is a net of a rectangular prism. Find the area of each part in square inches, than add all of them together for the surface area.

4.5 in.

4.5 in.

6 in.

$V = lwh$
$S.A. = 2lw + 2lh + 2wh$

SA = L + 2B

lateral
area

surface
area

base
area

5 cm

3 cm

3 cm

4 cm
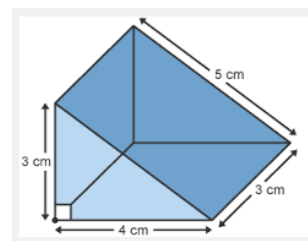
1. What is the surface area of the rectangular prism?

l = _____ w = _____ h = _____

5 cm

6 cm

4 cm

S.A. = _____

2. What is the surface area of the triangular prism?   K = 12cm

B = _____ 2B = _____ L.A. = _____
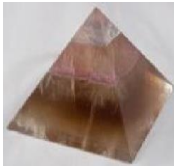
S.A. = _____

K

6 cm

16 cm
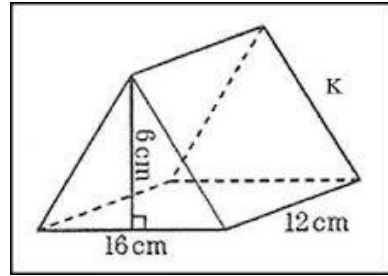
12 cm

3. What is the volume of the rectangular prism with length of 23 inches, width of 8 inches, and height of 18 inches? (V = *lwh*)

4. What is the volume of the square pyramid with base side length of 12cm and height of 15 cm?

(V = *Bh*)

5. What is the volume of a triangular pyramid with base length of the triangle of 6 feet, height of the triangle of 7 feet, and height of the pyramid of 6 feet? (V = $\frac{1}{3}$ *Bh*)

6 ft

7 ft

6 ft