Name_____ Date_____

Answers

Answers may vary a little depending on rounding.

Area of triangles:
Determine height or notice
Pythagorean triple 3, 4, 5.
$h = 3$ cm

$2 \times \dfrac{1}{2}(12 \times 3) = 36$

The area of the triangles
is 36 cm^2.

Area of rectangles:
Determine width of one face.
$3^2 + 8^2 = c^2$
$9 + 64 = c^2$
$73 = c^2$
$c = \sqrt{73}$
$c \approx 8.54$

$15 \times 12 + 15 \times 5 + 15 \times 8.54$
$= 180 + 75 + 128.1$
$= 383.1$
The area of the rectangles
is 383.1 cm^2.

The surface area of the triangular prism is 36 cm^2 + 383.1 cm^2,
or 419.1 cm^2.

Mathology 8, *2-D Shapes and 3-D Objects*
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