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 Answers

**Measurement**

**Unit 1 Line Master 12b**

Answers may vary a little depending on rounding.

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| Area of triangles:Determine height or notice Pythagorean triple 3, 4, 5.*h* = 3 cm2 × (12 × 3) = 36The area of the triangles is 36 cm2. | Area of rectangles:Determine width of one face.32 + 82 = *c*29 + 64 = *c*2 73 = *c*2 *c* = $\sqrt{73}$  *c* ≈ 8.54 15 × 12 + 15 × 5 + 15 × 8.54 = 180 + 75 + 128.1 = 383.1The area of the rectangles is 383.1 cm2. |

The surface area of the triangular prism is 36 cm2 + 383.1 cm2,
or 419.1 cm2.