GRADE 6 MATH · CLASSWORK · SPECIAL ED

Find the Surface Area of a Triangular Pyramid

SCORE / 25

01 Part A · Practice

A triangular pyramid has 4 triangle faces: SA = base triangle + 3 side triangles (½ × base × slant height each).

EXAMPLE

Base: side 6 cm, height 5.2 cm; slant height 8 cm.

1. Base: $\frac{1}{2} \times 6 \times 5.2 = 15.6$ cm^2.
2. One side face: $\frac{1}{2} \times 6 \times 8 = 24$; three: 72.
3. $SA = 15.6 + 72 = 87.6$ cm^2.

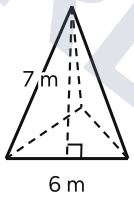
WORDS TO KNOW

triangular pyramid	a pyramid with a triangle base: 4 triangle faces
slant height	the height of a side triangle
equilateral triangle	a triangle with three equal sides

1 ●○○

The base triangle has height 5 m. Find the surface area.

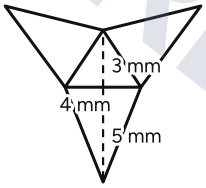
HINT SA = base triangle + 3 matching side triangles.



2 ●○○

Use the net to find the surface area.

HINT Find the middle triangle (the base), then one outer triangle × 3.



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Preview - the full worksheet and its answer key are at primeworksheet.com