

Total Surface Area of a Triangular Pyramid

Problem:

A triangular pyramid has a base with sides measuring 6 cm, 8 cm, and 10 cm. If the slant height is 12 cm, what is its total surface area?

Solution:

The lateral surface area of a triangular pyramid

$$= \frac{1}{2} \times (\text{Perimeter} \times \text{Slant Height})$$

The perimeter = $(6 + 8 + 10) \text{ cm} = 24 \text{ cm}$

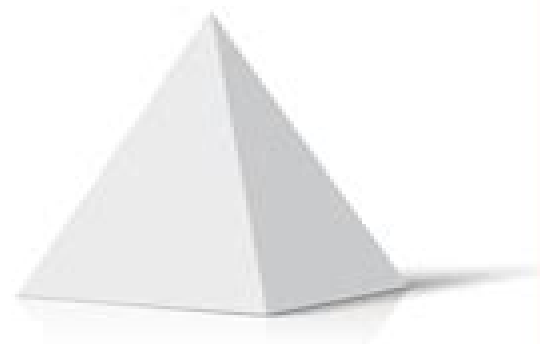
$$\begin{aligned}\text{So the lateral surface area} &= \frac{1}{2} \times (24 \times 12) \text{ sq. cm.} \\ &= 144 \text{ sq. cm.}\end{aligned}$$

$$\text{Now the base area} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$\text{Here, } s = (6+8+10)/2 = 12 \text{ cm}$$

$$\text{So the base area} = \sqrt{12(12-6)(12-8)(12-10)} \text{ sq. cm.} = 24 \text{ sq. cm.}$$

$$\begin{aligned}\text{Therefore, the total area} &= \text{Lateral area} + \text{Base area} \\ &= 144 \text{ sq. cm.} + 24 \text{ sq. cm.} \\ &= 168 \text{ sq. cm.}\end{aligned}$$



Answer Key For Triangular Pyramid Surface Area

William Dodds



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standards *Pitman's commercial arithmetic. [With] Answers* Isaac Pitman & Sons, sir Isaac Pitman (and sons; ltd.), 1898

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Geometry William James Milne, 1899 *Using the Standards - Problem Solving, Grade 6*, 2012-10-22 Empower students to build new mathematical knowledge solve problems in context apply and adapt appropriate strategies and reflect on the problem solving process with these reproducible worksheets The content in this book supports and is divided by the NCTM content standards number and operations algebra geometry measurement and data analysis and probability Timesaving

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