

Lateral Surface Area of a Triangular Pyramid

01. 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 lateral surface area?
02. The lateral surface area of a triangular pyramid is 72 square units. If the base perimeter is 18 units and the slant height is 9 units, what is the height of the pyramid?
03. A triangular pyramid has a base with sides measuring 12 cm, 16 cm, and 20 cm. If the height of the pyramid is 10 cm, what is its lateral surface area?
04. The lateral surface area of a triangular pyramid is 96 square units. If the base perimeter is 24 units and the height of the pyramid is 6 units, what is the slant height?
05. A triangular pyramid has a base with sides measuring 5 cm, 12 cm, and 13 cm. If the slant height is 10 cm, what is its lateral surface area?
06. The lateral surface area of a triangular pyramid is 120 square units. If the base perimeter is 30 units and the slant height is 15 units, what is the height of the pyramid?

07. A triangular pyramid has a base with sides measuring 9 cm, 12 cm, and 15 cm. If the height of the pyramid is 8 cm, what is its lateral surface area?

08. The lateral surface area of a triangular pyramid is 180 square units. If the base perimeter is 36 units and the height of the pyramid is 9 units, what is the slant height?

09. A triangular pyramid has a base with sides measuring 3 cm, 4 cm, and 5 cm. If the slant height is 6 cm, what is its lateral surface area?

10. The lateral surface area of a triangular pyramid is 150 square units. If the base perimeter is 40 units and the slant height is 12 units, what is the height of the pyramid?

11. A triangular pyramid has a base with sides measuring 7 cm, 10 cm, and 12 cm. If the height of the pyramid is 5 cm, what is its lateral surface area?

12. The lateral surface area of a triangular pyramid is 210 square units. If the base perimeter is 42 units and the height of the pyramid is 7 units, what is the slant height?