

Lesson 18: Surface Area of a Cube

Let's write a formula to find the surface area of a cube.

18.1: Exponent Review

Select the greater expression of each pair without calculating the value of each expression. Be prepared to explain your choices.

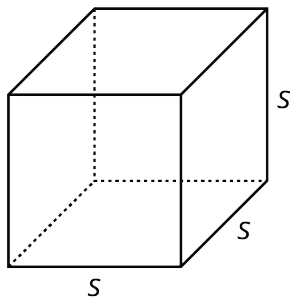
- $10 \cdot 3$ or 10^3
- 13^2 or $12 \cdot 12$
- $97 + 97 + 97 + 97 + 97 + 97$ or $5 \cdot 97$

18.2: The Net of a Cube

1. A cube has edge length 5 inches.
 - a. Draw a net for this cube, and label its sides with measurements.
 - b. What is the shape of each face?
 - c. What is the area of each face?
 - d. What is the surface area of this cube?
 - e. What is the volume of this cube?

Lesson 18 Summary

The volume of a cube with edge length s is s^3 .



A cube has 6 faces that are all identical squares. The surface area of a cube with edge length s is $6 \cdot s^2$.

