

## **Math Virtual Learning**



April 21, 2020

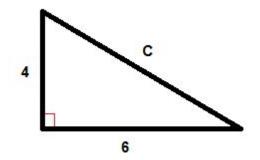


## Geometry Lesson: April 21, 2020

#### Objective/Learning Target: Calculate the surface area of regular prisms



## Bell Ringer: Find the area of the triangle. (Hint: A=½ \*b\*h)





#### Bell Ringer Answer: 12 square centimeters

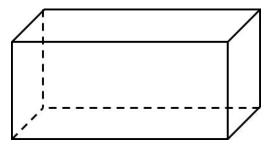
# Let's Get Started: Go through the following slides and try the example problems.



#### **DEFINITIONS:**

Prism: Polyhedron with two parallel, congruent bases.

Surface Area: Sum of the area of each face of the solid.





#### Surface Area of a Prism:

#### SA = 2B + PH

- B = area of the base
- P = perimeter of the base
- H = height of the prism



Example Problem: Find the surface area of the prism.

SA = 2B + PH B = area of the base

SA = 2( 30 ) + ( 22 )( 7 )

SA = 60 + 154

SA = 214 square meters

B = b x h

B = (5)(6)

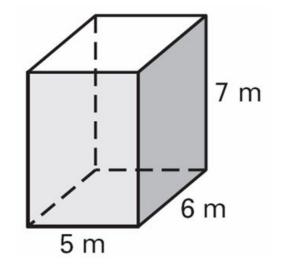
B = 30 square meters

**P** = perimeter of the base

P = 5 + 5 + 6 + 6

H = 7 meters

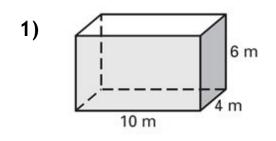
P = 22 meters

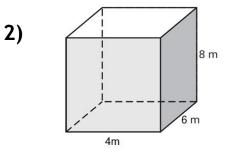


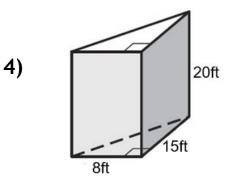
H = height of the prism

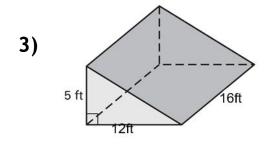


Try the next practice problems on your own! Find the surface area of each prism.











#### Answer Key: Here you will find the answers to the previous four questions. Check your answers below.

- 1) 248 square meters
- 2) 208 square meters
- 3) 540 square meters
- 4) 920 square meters



#### **Additional Resources:**

# Click on the link below to get additional practice and to check your understanding!

#### Surface Area of Prisms Practice

Answers