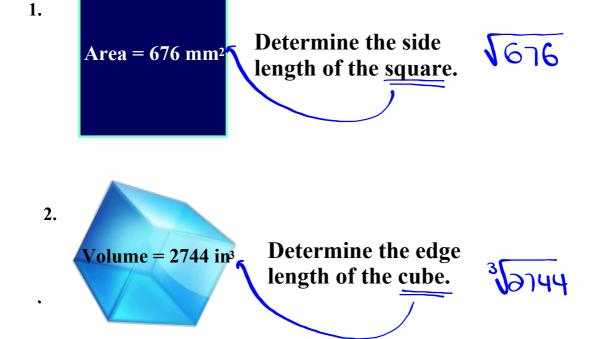
## Warm Up Questions



1. 
$$\sqrt{676}$$
 =  $2 \times 2 \times 13 \times 13$   
=  $2 \times 13$   
=  $26$ 

2. 
$$\overline{2744} = 2 \times 2 \times 2 \times 7 \times 7 \times 7$$
  
=  $2 \times 7$   
= 14

# Tricky

Determine the side length of a square if the area is  $81x^4y^2$ 

$$\sqrt{81x^4y^3} = 3.3.3.x.x.y$$
  
=  $9x^3y$ 



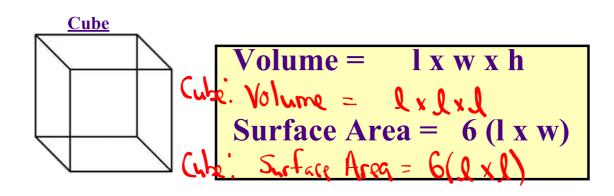
## **Formulas**





Area = 1 x w

Square: Area = 1 x 1





A <u>cube</u> has a surface area of 1944m<sup>2</sup>. What is it's volume?

$$\frac{1944m^3}{6} = 324m^3$$

$$(1) \sqrt{394} = 9 \times 9 \times 3 \times 3 \times 3 \times 3$$

$$=3\times3\times3$$



#### A cube has a surface area of 864 m<sup>2</sup>. What is it's volume?

#### A cube has a volume of 3375m<sup>3</sup>. What is it's surface area?

6) Find L: (11) Find SA

$$3\sqrt{3375} = 3\times3\times3\times5\times5\times5$$
 $= 3\times5$ 
 $= 3\times5$ 
 $= 15$ 

SA = 6(15×15)

 $= 3\times5$ 
 $= 15$ 
 $= 1350 \text{ m}^3$ 



#### A cube has a volume of 2197m<sup>3</sup>. What is it's surface area?



### **Funwork for Today**

Pg. 147 9, 13, 17

Pg. 149

2d, 3f, 8df, 10