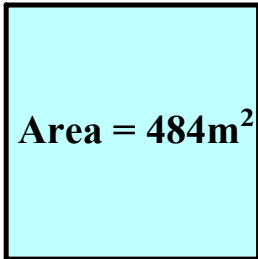


How are you doing? Warm Up Questions

1. Determine the *Greatest Common Factor* of 220 & 860.
2. Determine the *Least Common Multiple* of 60 & 230.

3. Determine the side length of the square.



Area = 484m^2

4. A cube has a volume of 2744cm^3 . What is the surface area?
5. A cube has a surface area of 864 m^2 . What is the volume.
6. 😊 $\sqrt[4]{1296}$

1. Determine the *Greatest Common Factor* of 220 & 860.

$$220 \rightarrow 2 \times 2 \times 5 \times 11$$

$$860 \rightarrow 2 \times 2 \times 5 \times 43$$

$$\text{GCF } 2 \times 2 \times 5 = 20$$

$$\text{GCF} = 20$$

2. Determine the *Least Common Multiple* of 60 & 230.

$$60 \rightarrow 2 \times 2 \times 3 \times 5 = 2^2 \times 3^1 \times 5^1$$

$$230 \rightarrow 2 \times 5 \times 23 = 2^1 \times 5^1 \times 23^1$$

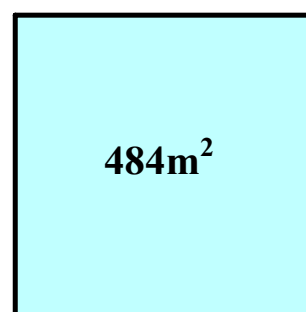
$$2^2 \times 3^1 \times 5^1 \times 23$$

$$4 \times 3 \times 5 \times 23$$

$$\text{LCM} \quad 1380$$

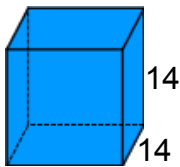
3. Determine the side length of the square.

$$\sqrt{484} \quad 2 \times 2 \times 11 \times 11$$
$$2 \times 11$$
$$22$$



4. A cube has a volume of 2744cm^3 . What is the surface area?

$$\sqrt[3]{2744} \quad 2 \times 2 \times 2 \times 7 \times 7 \times 7$$

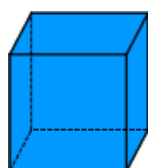


$$2 \times 7$$

$$14$$

$$\begin{aligned} A &= L \times W \\ &= 14 \times 14 \\ &= 196 \text{ x 6 sides} \\ &= 1176 \end{aligned}$$

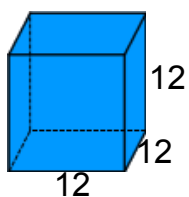
5. A cube has a surface area of 864 m^2 . What is the volume.



$$\frac{864}{6} = 144$$



$$\begin{aligned}\sqrt{144} &= 2 \times 2 \times 2 \times 2 \times 3 \times 3 \\ &= 2 \times 2 \times 3 \\ &= 12\end{aligned}$$



$$\begin{aligned}V &= L \times W \times H \\ &= 12 \times 12 \times 12 \\ &= 1728\end{aligned}$$

$$\begin{aligned} \text{😊 6. } \sqrt[4]{1296} &= 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3 \times 3 \\ &= 2 \times 3 \\ &= 6 \end{aligned}$$

