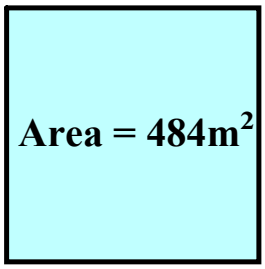
How are you doing? Warm Up Questions

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.

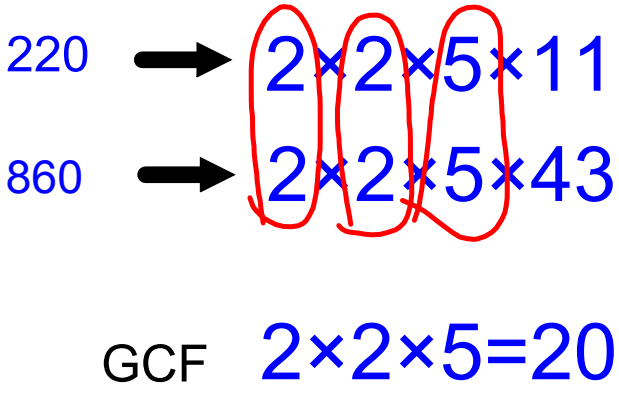


4. A cube has a volume of $2744cm^3$. What is the surface area?

5. A cube has a surface area of $864\ m^2$. What is the edge length of the cube?

6. $\sqrt[4]{1296}$

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



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

$60 \rightarrow \quad 2\times2\times3\times5 \quad = \quad 2^2\times3^1\times5^1$

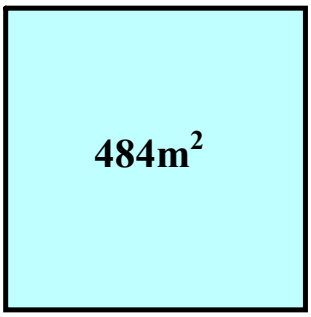
$230 \rightarrow \quad 2\times5\times23 \quad = \quad 2^1\times5^1\times23^1$

$2^2\times3^1\times5^1\times23$

$4\times3\times5\times23$

LCM $\quad 1380$

3. Determine the side length of the square.



$\sqrt{484}$ 2 x 2 x 11 x 11

2 x 11

22

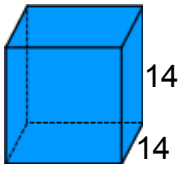
4. A cube has a volume of 2744cm^3. What is the surface area?

$V = l \times w \times h$

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

2×7

14



$SA = 6(l \times w)$

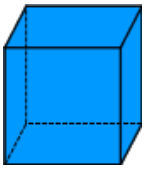
$A = L \times W$

$= 14 \times 14$

$= 196$ x 6 sides

$= 1176$ cm^2

5. **A cube has a surface area of 864 m ^{2}. What is the edge length of the cube?**



144

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

$\sqrt{144} = 2 \times 2 \times 2 \times 2 \times 3 \times 3$

$= 2 \times 2 \times 3$

$= 12$

6. $\sqrt[4]{1296}$ $= 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3 \times 3$

$= 2 \times 3$

$= 6$