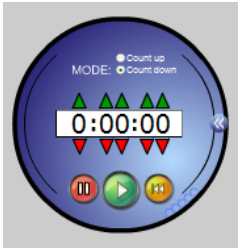
How are you doing?

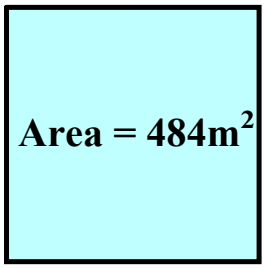
Warm Up Questions



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.**

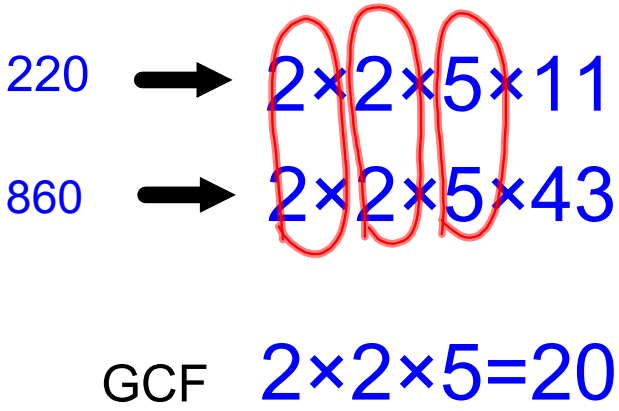


4. **A cube has a volume of 2744cm^3. What is the surface area?**

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

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

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



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

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

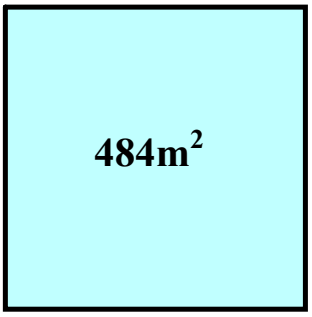
$230 \rightarrow \quad 2\times5\times23 \quad = \quad 2^1\times5^1\times23^1$

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

$4\times3\times5\times23$

LCM $\quad 1380$

3. Determine the side length of the square.



$\sqrt{484}$ $(2 \times 2) \times (11 \times 11)$

2×11

22

$A = l \times w$

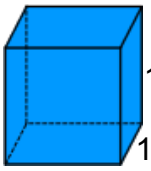
$= s \times s$

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

$\sqrt[3]{2744}$ (2 x 2 x 2) x (7 x 7 x 7)

2 x 7

14



SA = 6 (L x W)

A = L x W

= 14 x 14

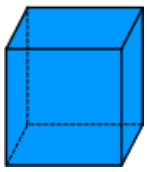
= 196 x 6 sides

= 1176

V = L x W x H

= S x S x S

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



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

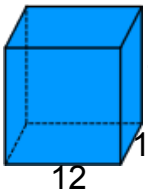
SA = 6(L x W)

144

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

$= 2 \times 2 \times 3$

$= 12$



V = L x W x H

= 12 x 12 x 12

= 1728 m^3

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

$= 2 \times 3$

$= 6$