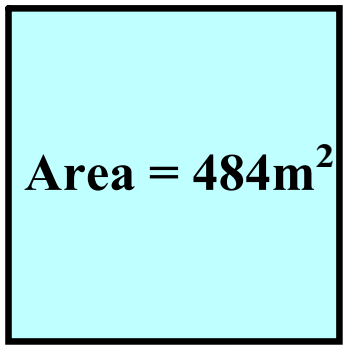
How are you doing? Warm Up Questions

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.

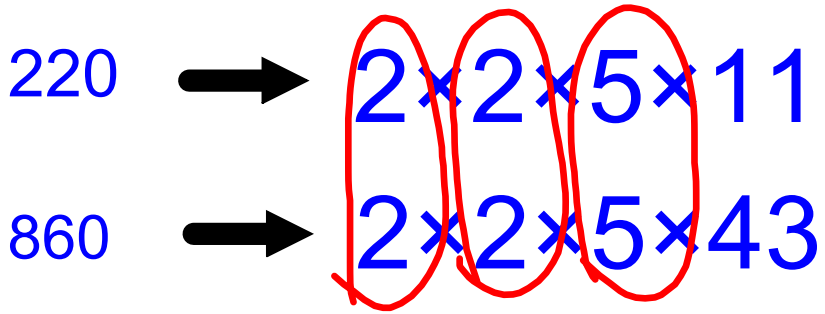


4. A cube has a volume of $2744cm^3$. What is the surface area?

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.



GCF $2\times2\times5=20$

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 $=$ 1380

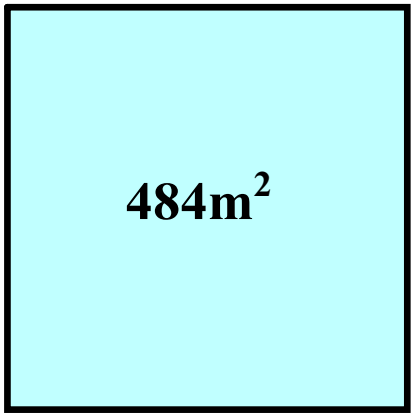
3. Determine the side length of the square.

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

2×11

22

?

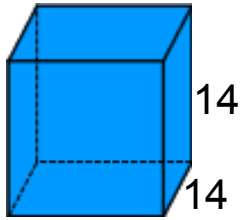


4. A cube has a volume of 2744cm^3. What is the surface area?

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

2×7

14



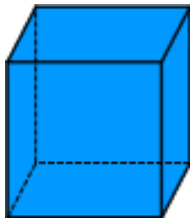
$A = L \times W$

$= 14 \times 14$

$= 196$ x 6 sides

$= 1176$ cm^2

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



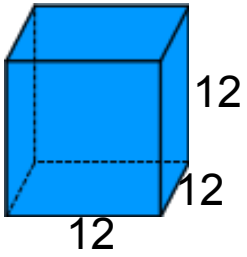
$\frac{864}{6} = 144$

144

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

$= 2 \times 2 \times 3$

$= 12$



$V = L \times W \times H$

$= 12 \times 12 \times 12$

$= 1728 \ m^3$

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

$= 2 \times 3$

$= 6$