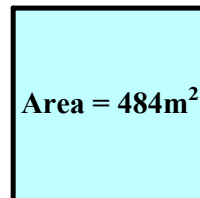


How are you doing?
Warm Up Questions

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?

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

$$\begin{array}{l} 220 \rightarrow 2 \times 2 \times 5 \times 11 \\ 860 \rightarrow 2 \times 2 \times 5 \times 43 \end{array}$$

$$2 \times 2 \times 5 = 20$$

$$\text{GCF} = 20$$

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

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

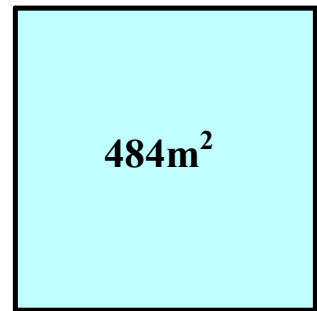
$$230 \rightarrow 2 \times 5 \times 23 = 2^1 \times 5^1 \times 23^1$$

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

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

$$= 1380$$

3. Determine the side length of the square.



$$484 \rightarrow (2 \times 2) \times (11 \times 11)$$
$$(2 \times 11) (2 \times 11)$$
$$22 \times 22$$

$$\text{Side} = 22 \text{ m}$$

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

$$2744 \rightarrow (2 \times 2 \times 2) \times (7 \times 7 \times 7)$$

$$(2 \times 7) (2 \times 7) (2 \times 7)$$

$$\begin{aligned} \text{SA} &= 6(l \times w) \\ &= 6(14 \times 14) \\ &= 1176\text{m}^2 \end{aligned}$$

$14 \times 14 \times 14$
Side = 14