

7. (a)
$$12 \rightarrow 2 \times 2 \times 3 = 2^{2} \times 3^{0} + 40 \rightarrow 2 \times 2 \times 2 \times 5 = 2^{3} \times 5^{0}$$

$$2^{3} \times 3^{1} \times 5^{1} \times 5 \times 5 = 120^{0}$$
(b) $16 \rightarrow 2 \times 2 \times 2 \times 2 = 2^{4} \times 5^{0} \times 5^{0}$

$$2^{5} \rightarrow 5 \times 5 = 5^{2} \times 5^{0} \times 5^{0}$$

$$2^{4} \times 3^{1} \times 5^{2} \times 5^{0}$$

$$2^{4} \times 3^{1} \times 5^{2} \times 5^{2}$$

$$16 \times 3 \times 25$$

$$= 1200$$

8.
$$\sqrt[3]{74088}$$

$$2 \times 2 \times 2 \times 3 \times 3 \times 7 \times 7 \times 7$$

$$2 \times 3 \times 7$$

$$= 42.$$

$$3H = 6(L \times W)$$

$$= 6(42 \times 42)$$

$$= 10584$$

9.
$$SA = \chi \left(1 \times W \right)$$

$$\frac{5400}{\frac{1}{5}6}$$

$$= 900$$

$$\sqrt{2 \times 2} \times 3 \times 3 \times 6 \times 5$$

$$2 \times 3 \times 5$$

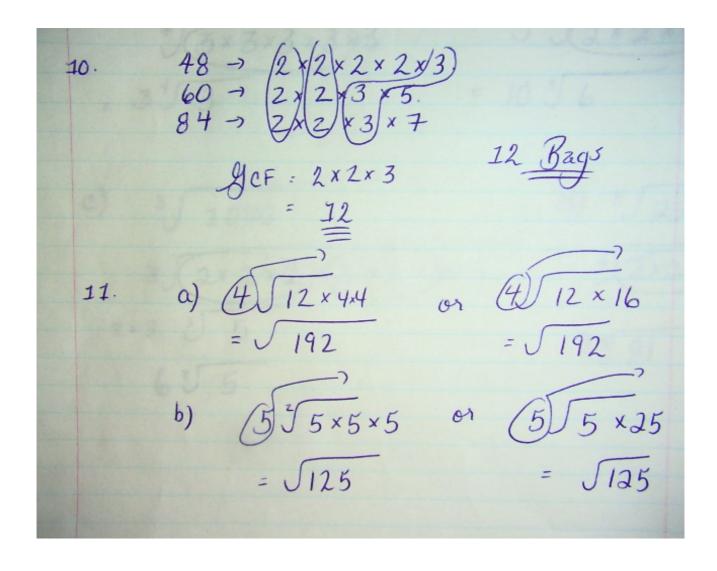
$$= 30$$

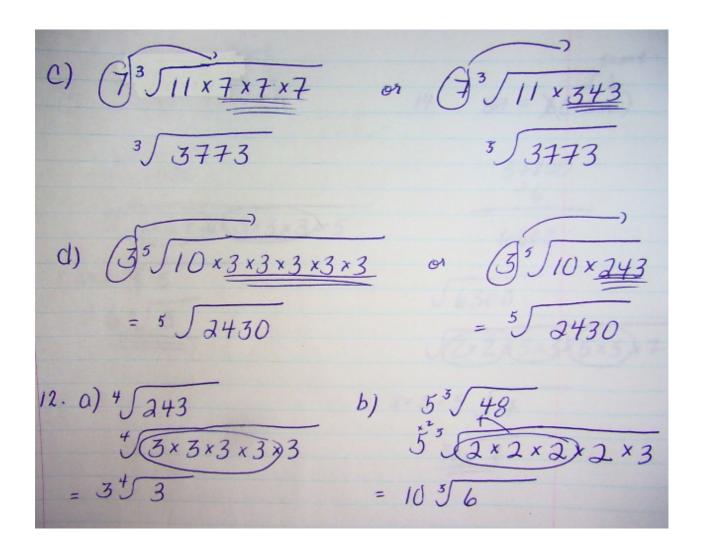
$$\sqrt{1 \times 2} \times 3 \times 5$$

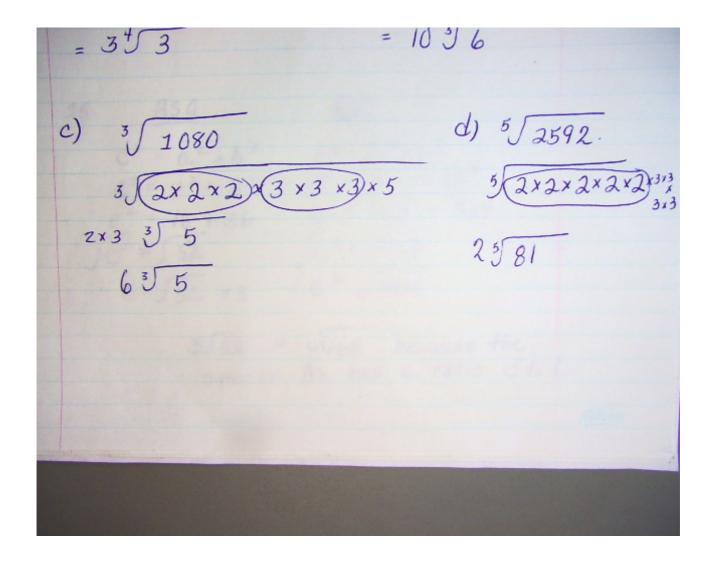
$$= 30$$

$$\sqrt{1 \times 2} \times 3 \times 5$$

$$= 30$$







15.
$$ASQ$$
 $C^2 = a^2 + b^2$
 $C^2 = 4^2 + 6^2$
 $C^2 = 12^2 + 18^2$
 $C^2 = 16 + 36$
 $C^2 = 52$
 $C^2 = 54$
 C

(b)
$$\sqrt{468} = 3\sqrt{52}$$
.
 $\sqrt{468} = \sqrt{52} \times 3 \times 3$.
 $\sqrt{468} = \sqrt{468}$
16. $\frac{1CM}{8} \rightarrow 2 \times 2 \times 2 = 2^{5}$
 $14 \rightarrow 2 \times 7 = 2' \times 7'$
 $2^{5} \times 7'$
 $8 \times 7 = 56 \text{ days}$