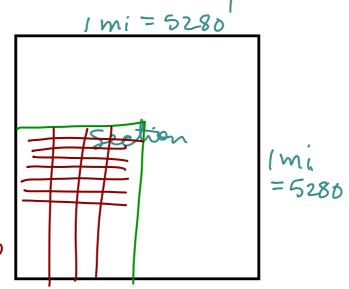
3.1 takeup # 20

20.

acre 66

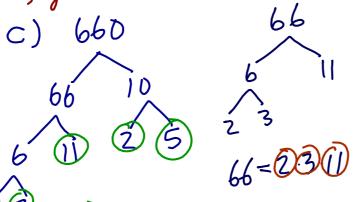
a)
$$\frac{5280}{660} = 8 \div 2 = 4$$

 $\frac{5280}{66} = 80 \div 2 = 40$



yes... 5280 is a common multiple of 660 and 66.

b) yes

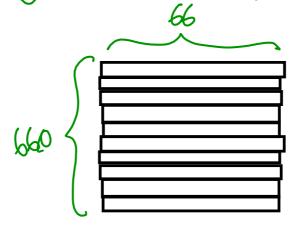


$$GCF = 2.3.11 = 66$$

$$LCM = 2.3.5.11$$

$$= 660$$

: The smallest square neasures 660 × 660



3.2

to get a square root O prime factor

2) use 1/2 of each prime number as the square rost.

94// 5900

 $900 = 2^2 \cdot 3^2 \cdot 5^2$

* To get a cube root, take a 1/3 of each prime factor

5832

DX// 3 5832

$$3\sqrt{5832} = 3^{2} \cdot 2$$

GCF and LCM for $3 \ 3 \ 900 = 23.33.53$ 5832 = 39.23

$$G(F = 2^{2} - 3^{2} = 36)$$

$$LCM = 2^{3}.3^{6}.5^{2}$$
$$= (5832)(25)$$

3.7 Multiplying Polynomials: distribution (a b -3) = xa + xb - 3x + 2a + 2b - 6There are no like ferms to wind ine xa + xb - 3x + 2a + 2b - 6 xa + xb - 3x + 2a + 2b - 6 xa + xb - 3x + 2a + 2b - 6

* We must multiply each term in the first polynomial by each term in the second polynomial

ex.
$$(2a-5)(3a^2-a+4)$$

= $ba^3-2a^2+8a-15a^2+5a-20$

 $= x^{4} - x^{3} - 19x^{2} - 32x - 17$

 $=6a^{3}-17a+13a-20$

$$ex.[(x+2)^{2}x^{2}-5x-3)$$

$$=[(x+2)(x+2)](x^{2}-5x-3)$$

$$=[x^{3}+2x+2x+4](x^{2}-5x-3)$$

$$=(x^{2}+4x+4)(x^{2}-5x-3)$$

$$=x^{4}-5x^{3}-3x^{2}+4x^{3}-20x^{3}-12x+4x^{2}-20x-12$$

ex. Expand and simplify

a)
$$(2x - 4)(3x + y - 1) - (3x + 2y)^2$$

b)
$$2(a + b)(2a - 3b) - (a - 2b)(2a + b)$$