* Find x such that 3x ≡ 7 (mod 10)
* What are the solutions of linear congruence
* Find x such that 3x ≡ 6 (mod 12).
* Find x, if possible, such that 2x ≡ 5 (mod 7), and 3x ≡ 4 (mod 8)
* Use the Chinese Remainder Theorem to find an x such that

x ≡ 2 (mod 5)

x ≡ 3 (mod 7)

x ≡ 10 (mod 11)

* Find all solutions x, if they exist, to the system of equivalences:

2x ≡ 6 (mod 14)

3x ≡ 9 (mod 15)

5x ≡ 20 (mod 60)

* Find all solutions x, if they exist, to the system of equivalences:

x ≡ 3 (mod 9)

x ≡ 7 (mod 13)

* Use the Chinese Remainder Theorem to find an x such that

x ≡ 2 (mod 3)

x ≡ 3 (mod 5)

x ≡ 6 (mod 7)

* Use the Chinese Remainder Theorem to find an x such that

x ≡ 2 (mod 5)

x ≡ 3 (mod 7)

x ≡ 5 (mod 6)