1. **Solve the equation.**
2. GCD(6,15)
3. GCD(20,28)
4. GCD(540,165)

**Solution:**

1. GCD(6,15) = GCD(15,6)

= GCD(6,3) […MOD(15,6) = 3]

= GCD(3,0) […MOD(3,0) = 0]

= 3

1. GCD(20,28) = GCD(28,20)

= GCD(20,8) […MOD(28,20) = 8]

= GCD(8,4) […MOD(20,8) = 4]

= GCD(4,0) […MOD(8,4) = 0]

= 4

1. GCD(540,168) = GCD(168,36) […MOD(540,168) = 36]

= GCD(36,24) […MOD(168,36) = 24]

= GCD(24,12) […MOD(36,24) = 12]

= GCD(12,0) […MOD(24,12) = 0]

= 12

1. **Solve the equation.**
2. H(2)
3. H(8)
4. H(24)

**Solution:**

1. H(2) = 3 \* 2

= 6

1. H (8)

= 2 \* H(8 – 5) + 7

= 2 \* H(3) + 7

= 2 \* (3 \* 3) + 7

= 25

1. H(24) = 2 \* H (24 – 5) + 7

= 2 \*(2 \* H (19 – 5) + 7) + 7

= 2 \*(2 \*(2 \* H (14 – 5) + 7) + 7) + 7

= 2 \*(2 \*(2 \*(2 \* H (9 – 5) +7) + 7) + 7) + 7

= 2 \*(2 \*(2 \*(2 \* (3 \* 4) +7) + 7) + 7) + 7

= 297