



Using listing method, find the HCF of the following numbers.

**1.** HCF (2; 4)

$$F_2 = (1; 2) \checkmark$$

$$F_4 = (1; 2; 4) \checkmark$$

Common factors: 1; 2

$$\text{HCF (2; 4)} = 2 \checkmark$$

**2.** HCF (10; 30)

$$F_{10} = (1; 2; 5; 10) \checkmark$$

$$F_{30} = (1; 2; 3; 5; 6; 10; 15; 30) \checkmark$$

Common factors: 1, 2, 5, 10

$$\text{HCF (10; 30)} = 10 \checkmark$$

**3.** HCF (5; 11)

$$F_5 = (1; 5) \checkmark$$

$$F_{11} = (1; 11) \checkmark$$

Common factors: 1

$$\text{HCF (5; 11)} = 1 \checkmark$$

**4.** HCF (15; 45)

$$F_{15} = (1; 3; 5; 15) \checkmark$$

$$F_{45} = (1; 3; 5; 9; 15; 45) \checkmark$$

Common factors: 1; 3; 5; 15

$$\text{HCF (15; 45)} = 15 \checkmark$$

**5.** HCF (18; 20)

$$F_{18} = (1; 2; 3; 6; 9; 18) \checkmark$$

$$F_{20} = (1; 2; 4; 5; 10; 20) \checkmark$$

Common factors: 1; 2

$$\text{HCF (18; 20)} = 2 \checkmark$$

**6.** HCF (21; 45)

$$F_{21} = (1; 3; 7; 21) \checkmark$$

$$F_{45} = (1; 3; 5; 9; 15; 45) \checkmark$$

Common factors: 1; 3

$$\text{HCF (21; 45)} = 3 \checkmark$$

**7.** HCF (10; 25)

$$F_{10} = (1; 2; 5; 10) \checkmark$$

$$F_{25} = (1; 5; 25) \checkmark$$

Common factors: 1; 5

$$\text{HCF (10; 25)} = 5 \checkmark$$

**8.** HCF (16; 40)

$$F_{16} = (1; 2; 4; 8; 16) \checkmark$$

$$F_{40} = (1; 2; 4; 5; 8; 10; 20; 40) \checkmark$$

Common factors: 1; 2; 4; 8

$$\text{HCF (16; 40)} = 8 \checkmark$$



Memo: Highest Common Factor (HCF)

**9.** HCF (18; 42)

$$F_{18} = (1; 2; 3; 6; 9; 18) \checkmark$$

$$F_{42} = (1; 2; 3; 6; 7; 14; 21; 42) \checkmark$$

Common factors: 1; 2; 3; 6

$$\text{HCF (18; 42)} = 6 \checkmark$$

**10.** HCF (36; 60)

$$F_{36} = (1; 2; 3; 4; 6; 9; 12; 18; 36) \checkmark$$

$$F_{60} = (1; 2; 3; 4; 5; 6; 10; 12; 15; 20; 30; 60) \checkmark$$

Common factors: 1; 2; 3; 4; 6; 12

$$\text{HCF (36; 60)} = 12 \checkmark$$

**11.** HCF (24; 28; 42)

$$F_{24} = (1; 2; 3; 4; 6; 8; 12; 24) \checkmark$$

$$F_{28} = (1; 2; 4; 7; 14; 28) \checkmark$$

$$F_{42} = (1; 2; 3; 6; 7; 14; 21; 42) \checkmark$$

Common factors: 1; 2

$$\text{HCF (24; 28; 42)} = 2 \checkmark$$

**12.** HCF (17, 21, 35)

$$F_{17} = (1; 17) \checkmark$$

$$F_{21} = (1; 3; 7; 21) \checkmark$$

$$F_{35} = (1; 5; 7; 35) \checkmark$$

Common factors: 1

$$\text{HCF (17; 21; 35)} = 1 \checkmark$$

