

2) Find the HCF

~~30 = 1~~

~~2 = 15~~

~~3 = 10~~

~~6 = 5~~

a) 8 and 16

$$8 = 1, 2, \textcircled{8}$$

$$16 = 1, 2, \textcircled{8}, 16$$

$$\text{HCF} = \textcircled{8}$$

b) 12 and 24

$$12 = 1, 2, 3, 4, \overset{6}{\textcircled{12}}$$

$$24 = 1, 2, 3, 4, 6, 8, \textcircled{12}, 24$$

$$\text{HCF} = \textcircled{12}$$

c) 24 and 36

$$24 = 1, 2, 3, 4, 6, 8, \textcircled{12}, 24$$

$$36 = 1, 2, 3, 4, 6, 9, \textcircled{12}, 18, 36$$

$$\text{HCF} = 12$$

d) 5 and 10

$$5 = 1, \textcircled{5}$$

$$10 = 1, 2, \textcircled{5}, 10$$

$$\text{HCF} = 5$$

e) $15 = 1, 3, 5, \textcircled{15}$

$$30 = 1, 2, 3, 5, 6, 10, \textcircled{15}, 30$$

$$\text{HCF} = 15$$

f) $4 = 1, \textcircled{2}, 4$

$$6 = \del{1} 1, \textcircled{2}, 3, 6$$

$$\text{HCF} = \textcircled{2}$$

g) $54 = 1, 54$
 $2, 27$
 $3, 18$
 $6, \textcircled{9}$
 $\textcircled{9}, 6$

~~HCF = 9~~

72 = 1	72
2	36
3	24
4	18
6	12
9	8

$$\text{HCF} = 9$$

2	54, 72
3	27, 36
3	9, 12
	3, 4

$$\text{HCF} = 2 \times 3 \times 3 = 18$$

h) 56 and 70

~~56 and 70~~

56 = 1, 2, 4, 7, 8, 14, 28, 56

70 =	1	70
	2	35
	5	<u>14</u>
	7	10

$$\text{HCF} = 14$$

2	56, 70
7	28, 35
	4, 5

$$\text{HCF} = 2 \times 7 = 14$$

(i) 23 and 25

$$23 = 1, 23 \quad \text{HCF} = 1$$

$$25 = 1, 5, 25$$

(j) 42 and 56

$$42 = 1, 42$$

$$2, 21$$

$$3, 14$$

$$6, 7$$

$$56 = 1, 56$$

$$2, 28$$

$$4, 14$$

$$8, 7$$

$$\text{HCF} = 14$$

$$2 \mid 42, 56$$

$$7 \mid 21, 28$$

$$3, 4$$

$$\text{HCF} = 2 \times 7 = 14$$