

Hw  
19/09/21

# Maths

## Ch - 10 Factor Multiples

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EX: 10 (D)

1) a) 8 and 16

$$1 \times 16 = 16$$

$$8 \times 1 = 8$$

$$8 \times 2 = 16$$

$$4 \times 2 = 8$$

$$2 \times 8 = 16$$

$$2 \times 4 = 8$$

$$4 \times 4 = 16$$

HCF of the following is 8.

b) 12 and 24

~~24~~ 24

~~12~~ 12

$$12 \times 1 = 12$$

$$24 \times 1 = 24$$

$$2 \times 6 = 12$$

$$2 \times 12 = 24$$

$$3 \times 4 = 12$$

$$3 \times 8 = 24$$

$$4 \times 6 = 24$$

HCF of the following is ~~12~~ 12.

c) 24 and 36

24

36

$$24 \times 1 = 24$$

$$36 \times 1 = 36$$

$$2 \times 12 = 24$$

$$2 \times 18 = 36$$

$$3 \times 8 = 24$$

$$4 \times 9 = 36$$

$$4 \times 6 = 24$$

$$6 \times 6 = 36$$

H.C.F of the following is 6.

d) 5 and 10

5

10

$$5 \times 1 = 5$$

$$10 \times 1 = 10$$

$$5 \times 2 = 10$$

H.C.F of the following is 5.

e) 15 and 30

15

30

$$15 \times 1 = 15$$

$$30 \times 1 = 30$$

$$3 \times 5 = 15$$

$$2 \times 15 = 30$$

$$5 \times 3 = 15$$

$$3 \times 10 = 30$$

$$5 \times 6 = 30$$

HCF of the following is 15.

f) 4 and 6

4

6

$$4 \times 1 = 4$$

$$6 \times 1 = 6$$

$$2 \times 2 = 4$$

$$2 \times 3 = 6$$

HCF of the following is 2.

g) 54 and 72

54

72

$$54 \times 1 = 54$$

$$72 \times 1 = 72$$

$$2 \times 27 = 54$$

$$2 \times 36 = 72$$

$$3 \times 18 = 54$$

$$3 \times 24 = 72$$

$$6 \times 9 = 54$$

$$4 \times 18 = 72$$

$$6 \times 12 = 72$$

$$6 \times 12 = 72$$

$$8 \times 9 = 72$$

HCF of the following is 9.

h) 56 and 70

56

70

$$56 \times 1 = 56$$

$$70 \times 1 = 70$$

$$2 \times 28 = 56$$

$$2 \times 35 = 70$$

$$4 \times 14 = 56$$

$$5 \times 14 = 70$$

$$7 \times 8 = 56$$

$$7 \times 10 = 70$$

HCF of the following is 14.

i) 23 and 25

23

25

$$1 \times 23 = 23$$

$$1 \times 25 = 25$$

$$5 \times 5 = 25$$

HCF of the following is 1.

j) 42 and 56

42

56

$$1 \times 42 = 42 \quad 1 \times 56 = 56$$

$$2 \times 21 = 42 \quad 2 \times 28 = 56$$

$$3 \times 14 = 42 \quad 4 \times 14 = 56$$

$$6 \times 7 = 42 \quad 7 \times 8 = 56$$

HCF of the following is 14.

2) a)