

NAME - JASMEEN BEHERA
CLASS - IV, SECTION D
SCHOOL NUMBER - 6609



CHAPTER - 10

FACTORS and multiples

WORKSHEET

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(A) Fill in the blanks

(1) 1 is a factor of every number.

(2) 2 is the first even prime number.

(3) The smallest multiple of a number is the 1.

(4) 1 is a multiple of every number.

(5) Prime numbers are having 1 numbers of factors.

(B) CHOOSE THE CORRECT ANSWER

(6) Every number is a multiple of 1
a) 0, b) ~~1~~, c) 33, d) None

(7) Composite numbers are the numbers having more than two factors? and other than _____

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Q. Every number can be expressed as a product of all its prime factors.
a) 0 b) 1 c) 33 d) None

Q. Every number can be expressed as a product of all its prime factors.

a) prime b) composite c) HCF d) None

Q. Composite numbers are having more than _____ factors.

a) 2 b) 1 c) 3 d) None

Q. When a particular number is a multiple of 2 or more numbers, it is called a

a) LCM b) HCF c) common multiple d) None

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(1) Write the first five multiples of 18.

Ans → multiples of 18

$$18 \times 1 = 18$$

$$18 \times 2 = 36$$

$$18 \times 3 = 54$$

$$18 \times 4 = 72$$

$$18 \times 5 = 90$$

(2) Find the HCF of 40, 50 and 60 by prime factorization method.

Ans → Using prime factorization method

$$\begin{array}{r|l} 2 & 40 \\ \hline & 20 \\ \hline 2 & 10 \\ \hline 5 & 5 \\ \hline & 1 \end{array}$$

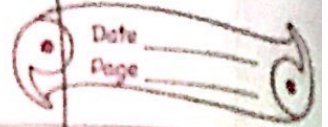
$$\begin{array}{r|l} 2 & 50 \\ \hline 5 & 25 \\ \hline 5 & 5 \\ \hline & 1 \end{array}$$

$$\begin{array}{r|l} 2 & 60 \\ \hline 2 & 30 \\ \hline 5 & 15 \\ \hline 3 & 3 \\ \hline & 1 \end{array}$$

$$\begin{array}{l} 40 = 2 \times 2 \times 2 \times 5 \\ 50 = 2 \times 5 \times 5 \\ 60 = 2 \times 2 \times 3 \times 5 \end{array}$$

$$\begin{aligned} \text{HCF} &= 2 \times 5 \\ &= 10 \end{aligned}$$

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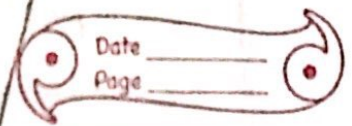


(13) Find the LCM of 36 and 52 by listing method.

Ans) Listing method

Multiples of 36 = 1, 2, 3, 4, 6, 9, 12, 18, 24, 36, 48, 60, 72, 84, 96, 108, 120, 144, 180, 216, 252, 288, 324, 360, 432, 504, 576, 648, 720, 864, 1008, 1296, 1512, 1814, 2178, 2592, 3024, 3628, 4300, 5076, 6000, 7092, 8448, 10080, 12096, 14544, 17448, 20916, 25056, 30072, 36084, 43300, 51840, 61776, 74496, 89712, 108864, 132816, 161760, 196800, 239040, 289440, 349440, 420480, 503040, 608640, 738720, 896640, 1095360, 1334400, 1621440, 1968000, 2385600, 2880000, 3460800, 4137600, 4920000, 5820000, 6840000, 7992000, 9384000, 11030400, 12940800, 15120000, 17606400, 20424000, 24600000, 29260800, 34435200, 40252800, 46742400, 54048000, 62304000, 71664000, 82176000, 93984000, 107241600, 123004800, 141446400, 162732800, 187128000, 214800000, 245928000, 281808000, 322848000, 369264000, 421440000, 479568000, 543744000, 614400000, 691872000, 776832000, 870000000, 971760000, 1082976000, 1205040000, 1338480000, 1486016000, 1646208000, 1816608000, 2000000000, 2197920000, 2409984000, 2642880000, 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15) Find the HCF of 144, 180 and 192 by common division method using common division method.

$$\begin{array}{r|l} 2 & 144, 180, 192 \\ \hline 2 & 72, 90, 96 \\ \hline 3 & 36, 45, 48 \\ \hline 2 & 18, 15, 24 \\ \hline 2 & 9, 15, 12 \\ \hline 3 & 3, 15, 4 \\ \hline & 1, 5, 4 \end{array}$$

$$\begin{aligned} \text{HCF} &= 2 \times 2 \times 3 \times 2 \times 2 \times 3 \\ &= 4 \times 4 \times 9 = 16 \times 9 = 144 \end{aligned}$$