

## ENRICHMENT ACTIVITIES

### MULTIPLES and FACTORS

A. Tick (✓) the correct option.

- The multiples of 9 are  
a. 9, 19, 27.  b. 35, 39, 45.  c. 54, 63, 36.  d. 46, 59, 69.
- The first multiple of 8 is  
a. 8.  b. 13.  c. 20.  d. 11.
- 3, 6, 9 and 12 are multiples of  
a. 8.  b. 3.  c. 2.  d. 4.
- \_\_\_\_\_ is a factor of all numbers.  
a. 2  b. 1  c. 5  d. 6
- $4 \times 7 = 28$ ; therefore, the factors of 28 are \_\_\_\_\_ and \_\_\_\_\_  
a. 3, 7  b. 1, 7  c. 4, 3  d. 4, 7
- The smallest multiple of 30 is  
a. 1  b. 2  c. 3  d. 30
- $4 \times 9 = 36$ ; therefore 4 and 6 are \_\_\_\_\_ of 36.  
a. factors  b. multiples  c. product  d. quotient
- The smallest factor of 27 is  
a. 1.  b. 2.  c. 3.  d. 9.
- The 8th multiple of 7 is  
a. 28.  b. 56.  c. 8.  d. 1.
- The largest factor of 16 is  
a. 1.  b. 16.  c. 160.  d. 8.

B. Write T for True or F for False.

- All odd numbers are multiples of 2.
- Even numbers have only even factors.
- Odd numbers have both even and odd multiples.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. The greatest factor of a number is the number itself. T  
 5. The 4th odd multiple of 3 is 21. T

C. Write all the factors of all the numbers from 1 to 20.

NUMBER	FACTORS	NUMBER	FACTORS
1	1	11	1, 11
2	1, 2	12	1, 2, 3, 4, 6, 12
3	1, 3	13	1, 13
4	1, 2, 4	14	1, 2, 7, 14
5	1, 5	15	1, 3, 5, 15
6	1, 2, 3, 6	16	1, 2, 4, 8, 16
7	1, 7	17	1, 17
8	1, 2, 4, 8	18	1, 2, 3, 6, 9, 18
9	1, 3, 9	19	1, 19
10	1, 2, 5, 10	20	1, 2, 4, 5, 10, 20

What do you observe?

- ▶ Number with only one factor
- ▶ Numbers with only two factors (1 and the number itself)
- ▶ Numbers with 3 or more than 3 factors

$\frac{1}{\underline{\hspace{1cm}}}$   
2, 3, 5, 7, 11, 13, 17, 19  
4, 6, 8, 9, 10, 12, 14, 15,  
16, 18, 20

D. Find factors using multiplication.

1. 28                      2. 24                      3. 48                      4. 84

## FRACTIONS

A. Solve.

1.  $\frac{1}{2}$  of 18 = 9                      2.  $\frac{1}{4}$  of 20 = 5  
 3.  $\frac{1}{3}$  of 21 = 7                      4.  $\frac{1}{4}$  of an hour = 15 minutes  
 5.  $\frac{3}{5}$  of 45 = 27                      6.  $\frac{3}{8}$  of 24 = 9

B. Complete the equivalent fractions.

1.  $\frac{1}{2} = \frac{\boxed{3}}{6}$                       2.  $\frac{2}{3} = \frac{8}{\boxed{12}}$                       3.  $\frac{7}{9} = \frac{14}{\boxed{18}}$

## STD - IV

### ENRICHMENT ACTIVITIES :-

2. Find factors using multiplication

1. 28

$$\begin{aligned} \text{As } 28 &= 1 \times 28 \\ &= 2 \times 14 \\ &= 4 \times 7 \end{aligned}$$

So, the required factors of 28 are 1, 2, 4, 7, 14 and 28

2. 24

$$\begin{aligned} \text{As } 24 &= 1 \times 24 \\ &= 2 \times 12 \\ &= 3 \times 8 \\ &= 4 \times 6 \end{aligned}$$

So, the required factors of 24 are 1, 2, 3, 4, 6, 8, 12 and 24.

3. 48

$$\begin{aligned} \text{As } 48 &= 1 \times 48 \\ &= 2 \times 24 \\ &= 3 \times 16 \\ &= 4 \times 12 \\ &= 6 \times 8 \end{aligned}$$

So, the required factors of 48 are 1, 2, 3, 4, 6, 8, 12, 16, 24 and 48.

4. 84

$$\begin{aligned} \text{As } 84 &= 1 \times 84 \\ &= 2 \times 42 \\ &= 3 \times 28 \\ &= 4 \times 21 \\ &= 6 \times 14 \\ &= 7 \times 12 \end{aligned}$$

So, the required factors of 84 are 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42 and 84