

**INTERNATIONAL INDIAN SCHOOL, DAMMAM**  
**UPPER PRIMARY SECTIONS CLASS V**  
**MATHEMATICS WORKSHEET FOR TERM 2 EXAM 2017-2018**

NAME: \_\_\_\_\_

SECTION: V-

**FACTORS & MULTIPLES**

**I. Fill in the blanks:**

1. Prime numbers have only \_\_\_\_\_ factors, \_\_\_\_\_ and the number itself.
2. There are \_\_\_\_\_ one digit prime numbers.
3. 2 is the only \_\_\_\_\_ prime number.
4. Two prime numbers whose difference is 2 are called \_\_\_\_\_.
5. All even numbers are \_\_\_\_\_ of 2.
6. \_\_\_\_\_ numbers cannot be the multiples of 2.
7. \_\_\_\_\_ is a unique number as it is neither prime nor composite and it has only factor.
8. All multiples are \_\_\_\_\_ than or \_\_\_\_\_ to the number.
9. \_\_\_\_\_ is a factor for all the numbers.
10. \_\_\_\_\_ numbers could be considered as the basic building blocks of all numbers.
11. Two numbers whose common factor (or HCF) is 1, are said to be \_\_\_\_\_ numbers.
12. The highest common number that divides the given numbers exactly without leaving any remainder is called as \_\_\_\_\_.
13. Another name for the HCF is the \_\_\_\_\_.
14. The smallest number which is a multiple of two or more numbers is called as the \_\_\_\_\_.
15. The HCF of given number is not \_\_\_\_\_ than any of the given numbers.
16. The \_\_\_\_\_ of given numbers is not less than any of the given numbers.
17. The LCM of two co-prime numbers is equal to \_\_\_\_\_.
18.  $HCF \times LCM$  of two numbers = \_\_\_\_\_.
19. All \_\_\_\_\_ numbers are odd except 2.
20. How many prime numbers are there between 60 and 90? \_\_\_\_\_.
21. Every number is a factor as well as a \_\_\_\_\_ of itself.
22. When a number divides another number exactly without leaving any remainder, the divisor and the quotient are called as the \_\_\_\_\_ of the dividend and the dividend is called as the \_\_\_\_\_ of the divisor and the quotient.

## II. Work out the following in revision notebook:

1. Write the prime numbers between 15 and 40.
2. Write the composite numbers between 50 and 70.
3. Find the prime factors of the following by division method: i) 32 ii) 48 iii) 210 iv) 72
4. Express as a product of 3 factors: i) 32 ii) 54 iii) 120 iv) 72
5. Find all the factors of i) 24 ii) 60 iii) 120 iv) 70
6. Write the next 4 multiples of 16.
7. Write the 4 odd multiples of 17 which comes after 50.
8. Find the common factors of 24 and 64
9. Find the HCF of the following by long division method:  
i) 77, 98, 105 ii) 12, 24, 28 iii) 136, 153, 204 iv) 185, 407, 333 v) 690, 920, 253
10. Find the LCM of the following:  
i) 21, 63, 105 ii) 30, 48, 64, 72 iii) 15, 55, 100 iv) 650, 115, 130, 1900 v) 168, 182, 196
11. The HCF and LCM of two numbers is 46 and 2898 respectively. If one of the numbers is 322, find the other number.
12. The product of 2 numbers is 1836. If one number is 90, find the HCF and LCM of the two numbers.

## FRACTIONS

### I. Fill in the blanks/boxes:

1. The mixed number for  $\frac{23}{6}$  is \_\_\_\_\_.
2.  $16 \div 28 =$  \_\_\_\_\_ (Write as fraction in its lowest term)
3.  $\frac{12}{25} =$  \_\_\_\_\_ (Express as a division sum)
4. \_\_\_\_\_
5. a)  $\frac{6}{11} = \frac{30}{\square}$  b).  $\frac{\square}{5} = \frac{28}{35}$
6. Write in the lowest term: a)  $\frac{24}{144}$  b)  $\frac{152}{380}$
7. The multiplicative inverse of  $\frac{3}{7}$  is \_\_\_\_\_.
8. The multiplicative inverse of  $4\frac{2}{5}$  is \_\_\_\_\_.
9. Two numbers are the multiplicative inverse of each other, if their product is \_\_\_\_\_.
10.  $\frac{6}{8} \times \frac{8}{6} =$  \_\_\_\_\_
11.  $\frac{3}{9}$  is the multiplicative inverse of \_\_\_\_\_.
12. The product of a fractional number and 0 is \_\_\_\_\_
13. The multiplicative inverse of \_\_\_\_\_ does not exist.
14.  $0 \div \frac{3}{5} =$  \_\_\_\_\_
15. When a non-zero fractional number is divided by itself, the quotient is \_\_\_\_\_.
16.  $\frac{1}{12} \div \frac{3}{12} =$  \_\_\_\_\_
17.  $\frac{3}{5}$  of 25 = \_\_\_\_\_
18.  $\frac{12}{19} \div \frac{6}{7} = \frac{12}{19} \times$  \_\_\_\_\_

**II. Write true or false:**

1.  $6\frac{3}{2}$  is a mixed numeral. \_\_\_\_\_ 2.  $\frac{24}{5} = 4\frac{4}{5}$  \_\_\_\_\_
3.  $\frac{6}{7} = \frac{18}{21}$  \_\_\_\_\_ 4. The multiplicative inverse of  $\frac{1}{6}$  is 6. \_\_\_\_\_
5.  $\frac{1}{9} + \frac{1}{9} = \frac{1}{9}$  \_\_\_\_\_ 6. Multiplicative inverse of 1 is 1 only. \_\_\_\_\_
7.  $\frac{3}{4} + \frac{3}{8} = \frac{4}{3} \times \frac{8}{3}$  \_\_\_\_\_ 8.  $13 + 8 = \frac{13}{8}$  \_\_\_\_\_
9.  $\frac{25}{75} = 75 + 25$  \_\_\_\_\_ 10. The lowest form of  $\frac{130}{520} = \frac{13}{52}$  \_\_\_\_\_

**III. Choose the correct answer.**

1.  $3\frac{2}{9}$  is equal to \_\_\_\_\_ a)  $\frac{54}{9}$  b)  $\frac{29}{9}$  c)  $\frac{9}{29}$  d)  $\frac{27}{9}$
2.  $\frac{13}{11}$  is equal to \_\_\_\_\_ a)  $1\frac{2}{11}$  b)  $1\frac{1}{11}$  c)  $11\frac{2}{13}$  d)  $2\frac{1}{11}$
3.  $0 \times \frac{7}{15} =$  \_\_\_\_\_ a)  $\frac{7}{15}$  b)  $\frac{15}{7}$  c) 0 d)  $\frac{70}{15}$
4.  $\frac{6}{7} \div$  \_\_\_\_\_  $= 1$  a)  $\frac{6}{7}$  b) 1 c)  $\frac{7}{6}$  d) 0
5.  $\frac{9}{10} \times \frac{20}{27} =$  \_\_\_\_\_ a)  $\frac{2}{3}$  b)  $\frac{3}{2}$  c)  $1\frac{1}{2}$  d)  $\frac{270}{180}$

**Do in Revision Notebook**

**IV. Reduce to the lowest term. (Write in its standard form)**

- a)  $\frac{16}{28}$  b)  $\frac{48}{144}$  c)  $\frac{21}{77}$  d)  $\frac{6}{24}$  e)  $\frac{54}{81}$  f)  $\frac{65}{130}$  g)  $\frac{15}{20}$  h)  $\frac{12}{36}$

- V. Multiply:** a)  $\frac{5}{11} \times 9$  b)  $\frac{2}{5} \times 10$  c)  $\frac{7}{91} \times 6$  d)  $\frac{7}{9} \times 5$  e)  $\frac{1}{10} \times 17$  f)  $\frac{3}{20} \times 0$

- g)  $\frac{7}{10} \times 1$  h)  $\frac{3}{4} \times 8$  i)  $4\frac{1}{5}$  by  $\frac{3}{7}$  j)  $5\frac{1}{10}$  by  $\frac{3}{17}$  k)  $4\frac{2}{5}$  by  $\frac{4}{11}$  l)  $3\frac{1}{5}$  by  $\frac{3}{8}$

- VI. Find the product:** a)  $\frac{3}{5} \times \frac{2}{3}$  b)  $\frac{2}{11} \times \frac{3}{4}$  c)  $\frac{7}{9} \times \frac{1}{21}$  d)  $\frac{4}{9} \times \frac{3}{8}$  e)  $\frac{26}{33} \times \frac{22}{39}$

- f)  $\frac{15}{49} \times \frac{14}{45}$  g)  $16 \times \frac{3}{4}$  h)  $15 \times \frac{2}{5}$  i)  $18 \times \frac{2}{3}$  j)  $21 \times \frac{3}{7}$  k)  $25 \times \frac{2}{5}$  l)  $30 \times \frac{1}{6}$

- VII. Solve:** a)  $6\frac{2}{7}$  of 7 b)  $6\frac{2}{3}$  of 1 c)  $2\frac{2}{3}$  of 6 d)  $5\frac{1}{2}$  of 4 e)  $5\frac{8}{9}$  of 9 f)  $6\frac{3}{14}$  of 7

- VIII. Find:** a)  $3\frac{1}{5}$  of  $2\frac{3}{4}$  b)  $2\frac{1}{15}$  of  $2\frac{1}{5}$

- IX. Simplify:** a)  $\frac{2}{3} \times \frac{9}{2} \times \frac{3}{5}$  b)  $\frac{3}{4} \times \frac{5}{7} \times \frac{7}{5}$  c)  $\frac{3}{8} \times \frac{1}{3} \times \frac{2}{7}$  d)  $\frac{1}{9} \times \frac{3}{5} \times \frac{3}{4}$

e)  $4\frac{1}{2} \times 3\frac{3}{5} \times 1\frac{1}{3}$  f)  $\frac{4}{7} \times 5\frac{2}{3} \times \frac{7}{17}$  g)  $4\frac{1}{2} \times 5\frac{1}{4} \times \frac{8}{21}$  h)  $3\frac{3}{4} \times 1\frac{2}{5} \times 1\frac{1}{7}$

**X. Solve:** a)  $\frac{1}{3} \div 4$  b)  $\frac{2}{5} \div 7$  c)  $\frac{2}{9} \div 4$  d)  $\frac{6}{7} \div 5$  e)  $\frac{2}{7} \div 5$  f)  $\frac{5}{9} \div 4$

g)  $15 \div \frac{1}{2}$  h)  $5 \div \frac{1}{6}$  i)  $9 \div \frac{2}{3}$  j)  $8 \div \frac{3}{4}$  k)  $17 \div \frac{1}{4}$  l)  $6 \div \frac{2}{5}$

m)  $\frac{21}{28} \div \frac{3}{4}$  n)  $\frac{10}{11} \div \frac{1}{11}$  o)  $4\frac{1}{2} \div \frac{1}{4}$  p)  $3\frac{1}{5} \div \frac{1}{5}$  q)  $5\frac{1}{3} \div \frac{8}{9}$  r)  $2\frac{4}{5} \div \frac{7}{10}$

**XI. Write statements and solve the following word problems:**

- One metre cloth costs Rs.  $77\frac{1}{2}$ . Find the cost of  $4\frac{1}{5}$  m of cloth.
- The daily consumption of milk of a family is  $5\frac{2}{7}$  litres. Find the quantity of milk consumed during a week.
- If  $\frac{1}{5}$  of the 645 residents of a colony like the Discovery channel. Find out the number of residents who liked this channel.
- A family spent  $\frac{3}{8}$  of their monthly income of Rs. 9648 on transport. Find the monthly expenditure on transport.
- The product of two fractions is  $17\frac{3}{5}$ . If one of the fractions is  $4\frac{2}{5}$ , find the other.
- $\frac{5}{9}$  of a number is 100. Find the number.
- Seema buys  $2\frac{1}{2}$  kg of sweets and out of that makes packets weighing  $\frac{1}{4}$  kg each. How many packets does she make?
- There are 44 students in a class of which  $\frac{8}{11}$  is the fraction of girls. Find the number of girls in the class and the number of boys.
- Anuj has a rope  $5\frac{1}{2}$  m long. He cuts one third of it. How long is the portion he cut off?
- How many one sixths are there in 20?