EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Real Numbers

Grade : CBSE Grade X

1. Which of the following fractions converts to a non-terminating recurring decimal?

   (i) $\frac{5760}{128}$ (ii) $\frac{46}{1}$ (iii) $\frac{4320}{64}$ (iv) $\frac{100}{9}$ (v) $\frac{90}{1}$

2. 2.6 =

   (i) $\frac{13}{500}$ (ii) $\frac{13}{50}$ (iii) 26 (iv) 260 (v) $\frac{13}{5}$

3. 4.8 =

   (i) 48 (ii) $\frac{12}{25}$ (iii) $\frac{6}{125}$ (iv) $\frac{24}{5}$ (v) 480

4. Find the number of prime factors of 32

   (i) 2 (ii) 1 (iii) 3 (iv) 0 (v) 4

5. Convert the fraction $\frac{1}{3}$ to non-terminating recurring decimal

   (i) $33.\overline{3}$ (ii) $3.\overline{3}$ (iii) $0.\overline{3}$ (iv) $0.0\overline{3}$ (v) $0.\overline{0}$

6. Find the HCF of {32,6,9}

   (i) 0 (ii) 2 (iii) 4 (iv) 1 (v) (-1)

7. Find the prime factorization of 3600

   (i) $2^4 \times 3 \times 5^2$ (ii) $2^4 \times 3^3 \times 5^2$ (iii) $5^4 \times 3^2 \times 5^2$ (iv) $2^4 \times 0 \times 5^2$ (v) $2^4 \times 3^2 \times 5^2$

8. 9.20 =

   (i) 920 (ii) $\frac{46}{5}$ (iii) $\frac{23}{250}$ (iv) $\frac{23}{25}$ (v) 92

9. Find the product of LCM and HCF of {8,6}

   (i) 48 (ii) 47 (iii) 50 (iv) 49 (v) 46

10. 5.9 =

    (i) $\frac{59}{100}$ (ii) 59 (iii) $\frac{59}{1000}$ (iv) 590 (v) $\frac{59}{10}$

11. Convert the fraction $\frac{100}{21}$ to non-terminating recurring decimal

    (i) $0.\overline{476190}$ (ii) $47.\overline{619047}$ (iii) $0.\overline{047619}$ (iv) $4.\overline{761904}$ (v) $476.\overline{190476}$

12. Find the total number of factors of 2000

    (i) 20 (ii) 22 (iii) 21 (iv) 19 (v) 18

13. Find the total number of factors of 9

(i) 1 (ii) 3 (iii) 2 (iv) 4 (v) 0

14. $20.58 =$

(i) $\frac{1029}{5}$ (ii) $\frac{1029}{500}$ (iii) $\frac{1029}{50}$ (iv) $\frac{1029}{5000}$ (v) 2058

15. Find the HCF of $\{6,14\}$

(i) 4 (ii) 0 (iii) 3 (iv) 2 (v) 1

16. Express $\frac{7377}{10000}$ as a decimal correct to 4 decimal places

(i) 0.0738 (ii) 0.8377 (iii) 7.377 (iv) 0.5377 (v) 0.7377

17. Which of the following is a rational number?

(i) $\sqrt[3]{52}$ (ii) $\sqrt[3]{91}$ (iii) $\sqrt{34}$ (iv) $\frac{20}{29}$ (v) $\sqrt{78}$

18. Find the LCM of $\{14,9\}$

(i) 129 (ii) 125 (iii) 124 (iv) 126 (v) 127

19. Find the prime factorization of 88

(i) $2^3 \times 9$ (ii) $2^3 \times 11$ (iii) $2^3 \times 10$ (iv) $2^4 \times 11$ (v) $2^3 \times 13$

20. $9.197 =$

(i) $\frac{9197}{1000}$ (ii) $\frac{9197}{100000}$ (iii) $\frac{9197}{100}$ (iv) $\frac{9197}{10000}$ (v) $\frac{9197}{10}$

21. Find the product of LCM and HCF of $\{24,25,6\}$

(i) 601 (ii) 600 (iii) 599 (iv) 603 (v) 598

22. Find the prime factorization of 390

(i) $4 \times 3 \times 5 \times 13$ (ii) $1 \times 3 \times 5 \times 13$ (iii) $2 \times 3 \times 3 \times 13$ (iv) $2^2 \times 3 \times 5 \times 13$ (v) $2 \times 3 \times 5 \times 13$

23. Find the HCF of $\{1920,440\}$

(i) 40 (ii) 38 (iii) 39 (iv) 43 (v) 41

24. Express $\frac{1}{10}$ as a decimal correct to 1 decimal places

(i) -0.1 (ii) 0.1 (iii) 1 (iv) 0 (v) 0.2

25. The recurring part of the decimal $11.44444444444444\ldots$ is

(i) 11.4 (ii) 44 (iii) 444 (iv) 4 (v) 441

Assignment Key

1) (iv)	2) (v)	3) (iv)	4) (ii)	5) (iii)	6) (iv)
7) (v)	8) (ii)	9) (i)	10) (v)	11) (iv)	12) (i)
13) (ii)	14) (iii)	15) (iv)	16) (v)	17) (iv)	18) (iv)
19) (ii)	20) (i)	21) (ii)	22) (v)	23) (i)	24) (ii)
25) (iv)					