

16.09.2020

CLASS - IVChapter - 10DECIMALS

A decimal fraction is a fraction where the denominators are 10, 100, 1000 etc.

In decimal fractions, $\frac{1}{10}$ is written as 0.1 and read as point one.

Common Fractions	Decimal Fractions	Read as (Decimal Fraction)
$\frac{5}{10}$	0.5	Zero point five
$\frac{9}{10}$	0.9	Zero point nine.
$\frac{5}{100}$	0.05	Zero point zero five
$\frac{10}{100}$	0.10	Zero point one zero.
$\frac{56}{100}$	0.56	Zero point five six.
$\frac{268}{1000}$	0.268	Zero point two six eight
$\frac{7777}{1000}$	7.777	Seven point seven - seven seven

2. Write the following in numeral form

b) Seven point eight four

Ans. 7.84

d) Fifty-one point zero one five

Ans. 51.015

e) Four point one two

Ans. 4.12

f) Nine point zero five

Ans. 9.05

3. Write the following decimal fractions in words

(e) 7.101 → Ans. Seven point one zero one

(g) 41.08 → Ans. Forty one point zero eight

(f) 82.151 → Ans. Eighty two point one five one

(i) 6.83 → Ans. Six point eight three

(k) 57.06 → Ans. Fifty seven point zero six

(l) 28.06 → Ans. Twenty eight point zero six

WRITING COMMON FRACTIONS AS DECIMAL FRACTIONS

1. Count the zeros of the denominator.
2. Put the decimal point to the left of the digit(s) according to the number of counted zeros, from the extreme right of the numerator.

WRITING DECIMAL FRACTIONS AS COMMON FRACTIONS

1. Write the given decimal fraction as the numerator and remove the decimal point.
2. Write 1 in the denominator and as many zeros next to it as the number of digits after the decimal point (in the decimal fraction).

Ex - 10.2

1. Convert the following common fractions into decimal fraction.

d) $\frac{634}{10} \rightarrow$ Ans. 63.4

g) $\frac{3941}{100} \rightarrow$ Ans. 39.41

j) $\frac{718}{1000} \rightarrow$ Ans. 0.718

k) $\frac{5}{1000} \rightarrow$ Ans. 0.005

2. Convert the following decimal fractions into common fractions.

b) 23.1 \rightarrow Ans. $\frac{231}{10}$

e) 18.26 \rightarrow Ans. $\frac{1826}{100}$

f) 38.492 \rightarrow Ans. $\frac{38492}{1000}$

3. Write the decimal and fractional expansion of the following.

a) 36.234 = 30 + 6 + 0.2 + 0.03 + 0.004 (decimal expansion)
= $30 + 6 + \frac{2}{10} + \frac{3}{100} + \frac{4}{1000}$ (fractional expansion)

i) 21.37 = 20 + 1 + 0.3 + 0.07 (decimal expansion)
= $20 + 1 + \frac{3}{10} + \frac{7}{100}$ (fractional expansion)

Class IV children,

Do rest of the sums from Ex. No. 10.1
and 10.2 in your c/w copy.

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