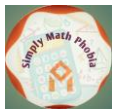Fractions and Decimals Worksheet

A. **State whether each of the following statements is true or false.**

(i) $\frac{2}{7}$ and $\frac{6}{14}$ are equivalent fractions. ……………

(ii) Every whole number can be written as a fraction with denominator 1. ……………

(iii) The reciprocal of 0 is 0. ……………

(iv) A proper fraction is always less than 1. ……………..

(v) $\frac{1}{5} \div \frac{1}{7} = \frac{1}{7} \div \frac{1}{5}$ ……………

(vi) $6\frac{9}{7} \div 0 = 0$ ……………

(vii) The reciprocal of fraction more than 1 is always less than 1. ……………

(viii) All improper fractions can be written in the form of mixed numbers. ……………

(ix) A fraction is said to be in its lowest terms if the numerator and denominator have no common factor. …………..

(x) $\frac{3}{7}$ and $\frac{3}{17}$ are like fractions. …………..

B. **Fill in the blanks .**

(i) There are ………….. halves in $13\frac{1}{2}$.

(ii) The multiplicative inverse of a fraction is called its ………………….

(iii) A fraction greater than 1 is always a/an ……………… fraction.

(iv) If the numerator of a fraction is increased , the value of the fraction ……………..

(v) ……………... one –fifths make a whole.

(vi) If we multiply both the numerator and denominator of a fraction by the same non-zero number , we get a/an ……………………………………..

(vii) Two fractional numbers with a product of 1 are called ……………….. of each other.

(viii) Reciprocal of ………. does not exist.

(ix) The only number which is the reciprocal of itself is ………….

(x) $910 \times 10\frac{1}{10} =$ … … … … … ..
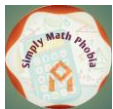
C. Solve the following word problems.

(i) The capacity of a cistern is 1680 litres. How much water is there in it when it is $\frac{4}{7}$ full?

(ii) Ram had Rs. 300. He spent $\frac{1}{3}$ of on note- books and $\frac{1}{4}$ of the remaining on stationary items. How much money is left with him?

(iii) A man sold $\frac{1}{2}$ of his land. He gave $\frac{1}{3}$ of the remaining to his son and $\frac{1}{4}$ of the balance to his daughter. What fraction of his land is now left with him?

(iv) The product of two numbers is $2\frac{2}{9}$. One of the numbers is $16\frac{2}{3}$. Find the other.

(v) 18 boxes of nails weigh equally. Their total weight is $49\frac{1}{2}\ kg$. How much does each box weigh?

(vi) Amit weighs 48.65 kg. His father is 1.36 times heavier than he is. Calculate his father's weight.

(vii) Subtract the difference of 400.05 and 285.258 from the sum of 426.356 and 176.278 .

(viii) The product of two decimals is 31. 536. If one of them is 8.64, Find the other.

(ix) A tank has 1716.32 L of water . This has to be poured into buckets of capacity 50. 48L. Find the number of buckets required.

(x) How many pieces of plywood each 0.45cm thick are required to make a pile of 2.97m high.

D. Solve the following:

(i) $8.01 \div 900$ **(ii)** $8.4 \div 7000$ **(iii)** $3421.83 \div 3000$ **(iv)** $0.09555 \div 2.73$

(v) $70.091 \div 5.27$

E. Fill in the placeholders :

(i) $96.84 \div 10 =$ ....

(ii) $7.2574 \div 1000=$ ....

(iii) $230.4 \div \square = 2.304$

(iv) $7.7 \div \square = 0.0077$

(v) $25.5 \div 0.5 =$ ....

(vi) $22.5 \div 1.5 =$ ....

(vii) $20.55 \div 1.5=$ ....

(viii) 82.44 ÷ 6 =…………………..

(ix) 100.01 × 1.1=……………..

(x)0.2 × 316.8 = ………………..

Answers

Ans. A (i) False   (ii) True   (iii) False   (iv) True   (v) False   (vi) False   (vii) True   (viii) True

(ix)False   (x) False

(B) (i) 27   (ii) reciprocal   (iii) improper   (iv) increases   (v) 5   (vi) equivalent fraction

(vii) reciprocal   (viii) 0   (ix) 1   (x) 9191

(C) (i) 940 L   (ii) Rs. 150   (iii) $\frac{1}{4}$ (iv) $\frac{2}{15}$ (v) $2\frac{3}{4}kg$ (vi) 66.164 kg   (vii)487.842   (viii) 3.65

(ix) 34   (x) 6960

(D) (i) 0.0089   (ii) 0.0012   (iii) 1.14061   (iv) 0.035   (v) 13.3

(E) (i)9.684   (ii)0.0072574   (iii) 100   (iv) 1000   (v) 51   (vi) 15   (vii) 13.7   (viii) 13.74   (ix) 110.011

   (x)   63.36