Class: 7th   Sub: Maths   **C.W./H.W./P.W. W.S. No. 6**

Student's Name: …………………………………………………………………….   Roll No.:……..

Issue Date: 06/11/2023   **Sub. Date:** 28/11/2023   **Sub. Teacher Sign**   Principal's Sign

DIWALI VACATION HOMEWORK

Q-1)Find whether there is a profit or loss in each of the following. Also calculate how much profit or loss
(a)CP=₹560 and SP=₹780   (b)CP=₹120 and SP=₹280
(c)CP=₹180 and SP=₹100   (d)CP=₹450 and SP=₹570   (e)CP=₹670 and SP=₹560

Q-2)Convert each part of the ratio to percentage
(a)2:3   (b)1:4   (d)3:3:4   (e)2:8   (f)2:1:5

Q-3)The population of a city decreased from 30000 to 29000. Find the percentage decrease

Q-4) Mohan bought a table for ₹14500 and spent ₹500 on transportation. He sold it for ₹18000, then find the profit percentage.

Q-5) On selling a toy for ₹630, a salesman loses 10%. Find the cost price of the toy

Q-6)Find the Simple interest for each of the following
(a)P=₹4500, R=5% , T=2 years   (b) P=₹670, R=10%, T=5 years
(c)P=₹180, R=7%, T=10 years   (d)P=₹150, R=5%, T=4 years   (e)P=₹560 , R=2% , T=4 years

Q-7)Find the amount to be paid at the end of 5 years in each case:
(a)P=₹2400 at 12% per annum   (b)P=₹8000 at 5 % p.a.

Q-8)A shopkeeper bought a chair for ₹300 and sold it for ₹275. Find the loss percentage

Q-9)Cost of an item is ₹150. If it is sold with a profit of 15%. Find the selling price

Q-10)An item is sold for ₹550 at a loss of 10%. Find its cost price

Q-11)Shyam invested ₹200000 at 5% interest per annum for 4 years. Find the simple interest

Q-12) Find the interest on ₹500 for a period of 4 years at the rate of 8% per annum. Also, find the amount to be paid at the end of the period

Q-13) A man borrowed Rs 8000 from a bank at 8% per annum. Find the amount he has to pay after $4\frac{1}{2}$ years.

Q-14) Anita deposits Rs 1000 in a savings bank account. The bank pays interest at the rate of 5% per annum. What amount can Anita get after one year?

Q-15)Find rate of interest if P=₹150 , SI=₹30 and T=4 years

Q-16)Find principal if rate of interest is 8%, time is $\frac{7}{2}$ years and simple interest is ₹98

Q-17)Write five positive rational numbers and five negative rational numbers

Q-18)Reduce to standard form

(i)$\frac{-28}{49}$ (ii)$\frac{-90}{60}$ (iii)$\frac{72}{48}$ (iv)$\frac{6}{30}$ (v)$\frac{24}{36}$

Q-19)Write following rational numbers on a number line
(i)$\frac{1}{2}$ (ii)$\frac{1}{5}$ (iii)$\frac{2}{3}$ (iv)$\frac{5}{7}$ (v)$\frac{-2}{5}$

Q-20)Find five rational numbers between the following rational numbers
(i)$\frac{5}{7}$ and $\frac{2}{5}$ (ii)$\frac{-7}{4}$ and $\frac{-5}{7}$ (iii)$\frac{2}{3}$ and $\frac{6}{8}$ (iv)$\frac{6}{7}$ and $\frac{-1}{5}$ (v)2 and 5

Q-21)List 10 rational numbers between 5 and 6

Q-22)Write five more rational numbers in each of the following patterns
(a)$\frac{1}{5}$, $\frac{2}{10}$, $\frac{3}{15}$, $\frac{4}{20}$,…….. (b)$\frac{-2}{7}$, $\frac{-4}{14}$, $\frac{-6}{21}$, $\frac{-8}{28}$, ………….

Q-23)Write in ascending order
(a)$\frac{7}{9}$, $\frac{3}{15}$, $\frac{4}{5}$, $\frac{2}{45}$ (b)$\frac{11}{12}$, $\frac{5}{8}$, $\frac{3}{4}$ (c)$\frac{5}{12}$, $\frac{7}{18}$, $\frac{3}{7}$, $\frac{11}{24}$ (d)$\frac{5}{14}$, $\frac{11}{21}$, $\frac{9}{35}$, $\frac{3}{7}$ (e)$\frac{3}{4}$, $\frac{3}{2}$, $\frac{2}{3}$, $\frac{1}{12}$

(24-Q Write in descending order
(a)$\frac{1}{5}$, $\frac{2}{7}$, $\frac{15}{20}$, $\frac{7}{10}$ (b)$\frac{2}{5}$, $\frac{4}{6}$, $\frac{3}{5}$, $\frac{1}{3}$ (c)$\frac{2}{3}$, $\frac{3}{5}$, $\frac{7}{10}$, $\frac{5}{40}$ (d)$\frac{7}{12}$, $\frac{3}{4}$, $\frac{8}{13}$, $\frac{2}{3}$ (e)$\frac{2}{4}$, $\frac{1}{6}$, $\frac{3}{7}$, $\frac{4}{9}$

Q-25)Represent following rational numbers on a number line
(a)$\frac{2}{5}$ (b)$\frac{3}{7}$ (c)$\frac{2}{3}$ (d)$\frac{1}{2}$ (e)$\frac{3}{2}$

~~~~~~~~~~~~~~~~~~~~~~~~~~~~**HAPPY DIWALI**~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~