Class: 8ᵗʰ   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)If marked price of an article is ₹2400 and the discount is 15% then find the selling price of the article

Q-2)Latika bought a teapot for ₹120 and a set of cups for ₹400. She sold teapot at a profit of 5% and cups at a loss of 20%. Find the amount received by her

Q-3)Find the original price of a washing machine which was bought for ₹14000 including 10% VAT

Q-4)A TV was bought for ₹25500 including 7% VAT. Find the original price of TV

Q-5)By selling an article for ₹112000 a girl gains 40%. Find the cost price of the article

Q-6)5% sales tax is charged on an article marked for ₹200 after allowing a discount of 5%. Find the amount payable

Q-7)Arunima bought household items whose marked price and discount % is as follows

Item	Quantity	Rate	Amount	Discount%
Atta	1 packet	200	200	16%
Detergent	1 packet	371	371	22%
Namkeen	1 packet	153	153	18%

Find the total amount of bill she has to pay

Q-8)Find the simple interest and also compound interest on ₹45000 at 12% per annum for 5 years

Q-9)Lemons were bought at ₹48 per dozen and sold at the rate of ₹40 per 10 pieces. Find the gain or loss percent

Q-10)Achal bought a second hand car for ₹225000 and spend ₹25000 for repairing. If he sold it for ₹325000, what is his profit or loss percent?

Q-11)A lady bought an air conditioner for ₹15200 and spent ₹300 on its transportation and ₹500 on its repair. If she sold it for ₹15000. Find profit or loss %

Q-12)The following items are purchased from showroom:
T shirt worth ₹1200
Jeans worth ₹1000
2 skirts worth ₹1350 each
What will these items cost to Shikha if the sales tax is 7% ?

Q-13)Find the interest to be paid on ₹25000 at 7% per annum after 7 years

Q-14)Find compound interest on a sum of ₹16000 for 2 years at 6% per annum compounded annually

Q-15)An almirah is sold at ₹4500 after allowing a discount of 6%. Find the marked price

Q-16)Write five monomials, five binomials , five trinomials.

Q-17)Identify terms and their coefficients for each of the following expressions
(i)2x-5y　　(ii)7x+2y　　(iii)$7xyz + 2yz - 8xz$　　(iv)$\frac{x}{5} + \frac{y}{7} - 1$　　(v)$1.5x + 2.7y - 5.7z$

Q-18)Add the following
(i)xy-yz,yz-zx,zx-xy　　　　(ii)a+b,b+c,c+d,e+f,f+g　　　　(iii)2x+3y,5y+7z,10z+2x

(iv)15xyz-20yz,25yz-10xyz　　(v)5mn+8pq , 2pq-1mn , 6mn-1pq

Q-19)Subtract:
(i)$6x^3+5xy-2x+6y$ from $9x^3-2xy+5x+10y$
(ii)$8-6x+x^2-7x^3+x^5$ from $x^4-6x^3+x^2-3x+1$
(iii)$6x^2+7x-10$ from $11x^2-8x+4$
(iv)15xy+8z-2y from 20xy+10z-8y
(v)$20z^3+16xz-2xy$ from $60z^3+5xz-5xy$

Q-20)Write like terms from the following
$2xy,15z,20x^3,18a,5xy,10x^3,20z,78xy,8xy,54yz,20a,17xy,23a,35a,82a$

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