Work sheet solution

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1. Solution:

Cost of 1 dozen pencils = tk.10.80Cost of 4 dozen pencils = 4×10.80

= 43.2 taka

Selling price of each pencil = 80 paise Total number of pencils = $12 \times 4 = 48$ SP of 48 pencils $=48 \times 80$ paise = 3840 paise = tk.38.40 Here, SP < CP. Loss = CP - SP = (43.2 - 38.4 taka)=tk. 4.8 Loss % = $(Loss/CP) \times 100$ $= (4.8/43.2) \times 100$ =480/43.2= 11.11%2. Solution: CP of 1 dozen oranges = tk. 26CP of 1 orange = 26/12 = tk. 2.16

CP of 5 oranges = $2.16 \times 5 = tk. 10.8$ Now, SP of 5 oranges = tk. 13Gain = SP - CP = tk. (13 - 10.8) = tk. 2.2Gain % = (Gain/CP) \times 100 $= (2.2/10.8) \times 100$ = 20.3%3. Solution: CP = tk. 12Profit % = 10We know that $SP = \{(100 + profit \%)/100\} \times CP$ $= \{(100+10)/100\} \times 120$ $= \{(110/100)\} \times 120$ $= 1.1 \times 120$ = 132 takas4. Solution: Cost of one dozen eggs = tk. 6.40Cost of 50 dozen eggs = 50×6.40 = tk. 320 Total number of eggs = $50 \times 12 = 600$ Number of eggs left after removing the broken ones = 600 - 20 = 580

SP of 1 egg = 55 paise So, SP of 580 eggs = 580×55 = 31900 paise = 31900/100 taka = 319 takas Loss = CP - SP = tk. (320-319) = tk. 1 Loss % = (Loss/CP) × 100 = (1/320) × 100 = 0.31%5. Solution:

Amount Mr. Virmani paid to purchase the house = tk. 365000Amount he spent on repair = tk. 135000Total amount he spent on the house (CP) = (365000 + 135000) taka

= tk. 500000 SP of the house = tk. 550000 Gain = SP - CP = tk. (550000 - 500000) = tk. 50000 Gain % = (Gain/CP) \times 100 = (50000/500000) \times 100 = 5000000/5000000 = 10%