

Weekly Question (19 Dec)

Miss Ng bought an **equal number** of erasers and pencils. She bought the erasers at 8 for \$7.50 and the pencils at 12 for \$16. She paid **\$28.50 more** for the pencils than the erasers. How much did Miss Ng pay for all the erasers and pencils?

Solution:

L.C.M. of 8 and 12 = 24

Cost of 24 erasers $\rightarrow \$7.50 \times (24 \div 8) = \22.50

Cost of 24 pencils $\rightarrow \$16 \times (24 \div 12) = \32

Difference in cost $\rightarrow \$32 - \$22.50 = \$9.50$ (1 group: 24)

$\$28.50 \div \$9.50 = 3$ groups

$3 \times 24 = 72$

Cost of 72 erasers $\rightarrow \$22.50 \times 3 = \67.50

Cost of 72 pencils $\rightarrow \$32 \times 3 = \96

Total cost of 72 erasers and 72 pencils $\rightarrow \$67.50 + \$96 = \$163.50$

Ans: Miss Ng paid \$163.50 for all the erasers and pencils.