

4.NBT.B.5 Multiply 4-Digit Numbers by 1-Digit Numbers (Word Problems)

4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers

1. A coffee shop employs 4 employees and pays an average salary of \$1,525 per month for every employee. What is the total salary of all employees per month? How much money does an employee get paid in 4 months?

Solution:

2. The price of a day pass at a zoo is \$28. The price of a season pass is \$140. Harvey wants to visit the zoo 7 times in the season. How much money does he save if he buys a season pass instead of daily pass?

Solution:

3. Use the data in the table on your right to solve the problems.
 - a. How much does a store manager get paid in 3 months?
 - b. There are 3 stock clerks, 7 cashiers and 5 baggers employed at the store. How much do these employees get paid per month in total?
 - c. How much more does a store manager get paid than a department manager?

Salary Details: Grocery store	
Position	Salary per month
Store Manager	\$3,840
Department Manager	\$3,072
Stock Clerk	\$1,920
Cashier	\$1,728
Bagger	\$1,536

Solution:

a.

b.

c.

4. The monthly membership price at Fitness Gym is \$35. If a costumer signs a 10-month contract, the monthly membership price drops to \$32. Andrei plans to visit the gym for 9 months. Should he sign the contract and purchase a 10-month membership? Explain.

Solution:

5. Price of manicure at Nail Shop is \$14. A costumer gets every 5th manicure free. How much money does a costumer pay after he gets a total of 5 manicures? How much does it cost for 10 manicures?

Solution:

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4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers

1. A coffee shop employs 4 employees and pays an average salary of \$1,525 per month for every employee. What is the total salary of all employees per month? How much money does an employee get paid in 4 months?

Solution:

\$6,100; \$6,100

2. The price of a day pass at a zoo is \$28. The price of a season pass is \$140. Harvey wants to visit the zoo 7 times in the season. How much money does he save if he buys a season pass instead of daily pass?

Solution:

\$56

3. Use the data in the table on your right to solve the problems.
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 - b. There are 3 stock clerks, 7 cashiers and 5 baggers employed at the store. How much do these employees get paid per month in total?
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Salary Details: Grocery store	
Position	Salary per month
Store Manager	\$3,840
Department Manager	\$3,072
Stock Clerk	\$1,920
Cashier	\$1,728
Bagger	\$1,536

Solution:

a. \$11,520

b. \$25,536

c. \$768 per month

4. The monthly membership price at Fitness Gym is \$35. If a costumer signs a 10-month contract, the monthly membership price drops to \$32. Andrei plans to visit the gym for 9 months. Should he sign the contract and purchase a 10-month membership? Explain.

Solution:

No, Andrei can save by \$5 if he would not sign the contract.

5. Price of manicure at Nail Shop is \$14. A costumer gets every 5th manicure free. How much money does a costumer pay after he gets a total of 5 manicures? How much does it cost for 10 manicures?

Solution:

\$56; \$112