5-4

Problem-Solving Practice

TEKS 5.15(B)

More Algebraic Expressions

Write an expression for each real-world situation. Then evaluate.

1. Mrs. Perry has $105 to divide among her 3 children. How much money will each child receive?

   _____

2. Marcus received 15 packages of baseball cards for his birthday from his friends. If each package of baseball cards contains 8 cards, how many cards did he receive altogether?

   _____

3. There are 195 cars parked in the mall parking garage. There are 5 levels in the garage. If an equal number of cars are parked on each level, how many cars are on each level?

   _____

4. Jacob has 82 fewer dollars than his sister Jada in his savings account. If Jada has $235 in her account, how much does Jacob have?

   _____

5. Mr. Blackburn has 24 students in his science class. He asks each student to bring in 3 insects to study. How many insects will there be altogether?

   _____

6. Manuel is helping set up chairs for a school assembly. He has a total of 216 chairs that need to be arranged in rows of nine. How many rows of chairs will there be when he is finished?

   _____

7. The prices of certain items at the pool concession stand are shown in the table. Julia buys a juice pop and another item. If the other item was a bottled water, how much money did she spend?

   _____

Item	Price ($)
bottled water	1.50
candy bar	0.50
hot dog	1.75
juice pop	0.75

1. Jeff wants to build 5 birdhouses as gifts. To build 1 birdhouse, he uses 8 pieces of wood and 48 nails. Which number sentence could be used to find the total number of nails Jeff will need to build the 5 birdhouses?

   A $(5 \times 8) + (5 \times 48) = \boxed{}$
   B $5 \times 48 = \boxed{}$
   C $(5 \times 48) + 8 = \boxed{}$
   D $8 \times 48 \times 5 = \boxed{}$

2. Suzanne bought 5 boxes of cookies for her party. Each box had 24 cookies. At the party, her guests ate 75 cookies. Which number sentence could be used to find S, the number of cookies Suzanne had left after the party?

   A $S = (5 \times 24) + 75$
   B $S = 24 + 75$
   C $S = (5 \times 24) - 75$
   D $S = 5 + 24 + 75$

3. The fourth- and fifth-grade students at Red River Elementary are taking a test. There are 154 fourth-grade students and 212 fifth-grade students. Each student needs 2 pencils for the test. Which number sentence could be used to find T, the total number of pencils needed by the fourth- and fifth-grade students?

   A $T = (2 \times 154) + 212$
   B $T = 154 + 212 + 2$
   C $T = (154 + 212) \div 2$
   D $T = 2 \times (154 + 212)$

4. Barbie earned $44 for babysitting and $26 for running errands. She must use half of the money she earned to repay a loan from her mother. Which number sentence could be used to find how much money Barbie owes her mother?

   A $(44 + 26) \div 2 = \boxed{}$
   B $(44 - 26) \times 2 = \boxed{}$
   C $(44 \times 26) \div 2 = \boxed{}$
   D $(44 + 26) \times 2 = \boxed{}$