Writing expressions with variables

Grade 5 Word Problems Worksheet

1. There are n vehicles parked in the supermarket parking lot. After 5 minutes, 17 vehicles left the parking lot. Write the expression for the number of vehicles that left the parking lot.

2. Marc's car is stuck in traffic after he drives b meters from the entrance of the bridge for 8 minutes. He needs to drive 265 meters more to get off the bridge. Write the expression for the length of the bridge.

3. Denver had f liters of gas in his car. After 5 hours of a continuous long drive, there are 8 liters left. Write the expression for the number of liters of gasoline consumed in one hour.

4. The car parking lot charges $3 for the first hour. There is an additional parking fee of $2 for the succeeding hours of parking. Billy paid *(m – 1)* hours of parking. Write the expression for the amount Billy needs to pay for parking.

5. A motorcycle dealer sold 142 motorcycles and 321 motor parts this month. Last month, the motorcycle dealer sold c motorcycles fewer than this month. Write the expression for the number of motorcycles sold last month.

6. Jerry is driving a truck that travels a distance of 42 kilometers per hour. He drove n hours yesterday. Write the expression for the distance he travelled yesterday.

Answers

1. $n - 17$

2. $b + 265$

3. $\frac{f-8}{5}$

4. $3 + 2\,(m - 1)$

5. $142 - c$

6. $42n$