Exercises - Solving Word problems Using Systems of Equations

1

Adam and Betty purchased a printer together for $258. If Adam paid $18 less than twice Betty, how much money did Adam pay for the printer?

A) 172

B) 166

C) 158

D) 146

2

There are 28 tables for customers at Mesa Grill Restaurant. The tables are either two-seat tables or four-seat tables. When all the tables are full, there will be 90 customers in the restaurant. How many two-seat tables are at the restaurant?

A) 11

B) 13

C) 15

D) 17

3

In a basketball, a field goal is either 2 or 3 points. In a college basketball tournament, Jim made 73 more 2-point field goals than 3-point field goals. If he scored a total of 216 goals in the tournament how many 3-point field goals did he make?

A) 12

B) 14

C) 16

D) 18

4

In a car dealership, all of the vehicles are either a sedan or a SUV. If 36 sedans are sold and 36 SUVs are added, there will be an equal number of sedans and SUVs. If 8 SUVs are sold and 8 sedans are added, there will be twice as many sedans as SUVs. How many sedans were at the dealership before any vehicle was sold?

A) 132

B) 144

C) 156

D) 168

5

At a coffee shop, a 16 ounce bag of coffee is on sale at $5.25 less than the regular price. The cost of 4 bags of coffee at regular price is the same as the cost of 6 bags of coffee at sale price. Let r be the regular price of coffee and s be the sale price of coffee. Which of the following systems of equations can be used to find the values of variables r and s?

A) $\begin{cases} s = r - 16 \\ r = 6s \end{cases}$

B) $\begin{cases} s = r - 5.25 \\ 4r = 16 \end{cases}$

C) $\begin{cases} s = r - 5.25 \\ 4r = 6s \end{cases}$

D) $\begin{cases} s = r + 5.25 \\ 4r = 6s \end{cases}$