

# Equations for Life

Name: \_\_\_\_\_  
 Period: \_\_\_\_\_  
 Date: \_\_\_\_\_

- Directions: 1. Fill in the table.  
 2. Write the equation. Use the words in the problems for variables.  
 3. Write what each variable means. For example, C = cost.

1. Smith Touring Company provides bus tours of California. The cost of the tour is \$250 per person. If 10 people from the Jones family go on the tour, what was the total cost?

Rule:  $C =$

Symbols:  $C = \text{cost}$     $P = \text{people}$

2. Movie Rentals Extraordinaire rents hard to find movies. The membership fee is \$10 and it costs \$2 to rent a movie thereafter. If Lisa wants to rent 20 movies, how much is it going to cost?

Rule:  $C =$

Symbols:  $M =$     $C =$

3. Sasha is going on a roadtrip. She averages 25 miles per gallon. If Sasha fills up 20 gallons, how far can she go?

Rule: \_\_\_\_\_

Symbols:  $G =$     $M =$

4. Three people run a small business for Volkswagen parts. Their income is the profit shared equally among themselves. If they make a total profit of \$450 dollars in one week, how much income does each person make?

Rule: \_\_\_\_\_

Symbols:  $P =$     $I =$

5. Farmer Bob sprays 18 gallons of pesticide per acre. If Farmer Bob has 30 acres, how many gallons of pesticide will he need?

Rule: \_\_\_\_\_

Symbols:  $A =$     $G =$

0 1 2 3 10	
0 1 2 3 20	
0 1 2 3 20	
3 6 9 450	
0 1 2 3 30	

6. Pricey Catering Company charges a fee of \$50 a person and \$40 to setup. If they are catering a party of 30 people, how much is their total fee.

Rule: \_\_\_\_\_

Symbols:  $F =$  \_\_\_\_\_  $P =$  \_\_\_\_\_

0  
1  
2  
3  
30

7. Jane is a taxicab driver. She charges a \$2 boarding fee and \$0.50 for every mile. If Fred needs to get to the airport which is 40 miles away, how much will Jane charge?

Rule: \_\_\_\_\_

Symbols:  $C =$  \_\_\_\_\_  $M =$  \_\_\_\_\_

0  
1  
2  
3  
40

8. To determine income, a small business with 5 employees will split the profit. If the profit is \$40,000, how much income does each employee get?

Rule: \_\_\_\_\_

Symbols:  $P =$  \_\_\_\_\_  $I =$  \_\_\_\_\_

5  
10  
15  
40,000

9. Jon has \$100 in a bank account and saves \$20 a month. How much money will he have in 20 months?  
(savings)

#9 Rule: \_\_\_\_\_

Symbols:  $S =$  Savings  $M =$  \_\_\_\_\_

0  
1  
2  
3  
20

#10 Rule: \_\_\_\_\_

\* Same symbols!

10. Jamie has \$200 in a bank account and saves \$10 a month. How much money will she have in 20 months.

Who is saving more, Jon or Jamie? (Give a range for each person)

\_\_\_\_\_

0  
1  
2  
3  
20