

Name _____ Hour _____

Chapter 12 Word Problems #2

1. A local telephone company charges \$40 per month for services plus a fee of \$0.10 a minute for long distance calls. Another company charges \$75.00 a month for unlimited service. How many minutes does it take for a person who subscribes to the first plan to pay as much as a person who subscribes to the unlimited plan?

variable: $x =$ _____

Equation: _____ Solution: _____

2. Mari can buy a video game console for \$72.45 and rent a game for \$7.95 per week, or she can rent a console and the same game for a total of \$22.44 per week. How many weeks would Mari need to rent both the video game and the console to pay as much as she would if she had bought the console and rented the game instead?

variable: $x =$ _____

Equation: _____ Solution: _____

3. Members at the Star Theater pay \$30.00 per month plus \$1.95 for each movie. Nonmembers pay the regular \$7.95 admission fee. How many movies would both a member and nonmember have to see in a month to pay the same amount.

variable: $x =$ _____

Equation: _____ Solution: _____

4. Members at a swim club pay \$5 per lesson plus a one-time fee of \$60. Nonmembers pay \$11 per lesson. How many lessons would both a member and nonmember have to take to pay the same amount?

variable: $x =$ _____

Equation: _____ Solution: _____

5. Jaline purchased a tile at a store for \$0.99 per tile and rent a tile saw for \$24. At another store, she can borrow the tile saw for free if she buys the tile there for \$1.49 per tile. How many tiles must she buy for the cost to be the same at both stores?

variable: $x =$ _____

Equation: _____ Solution: _____

6. A golf course charges nonmembers \$48 per round plus a golf cart rental fee of \$24 per round. A member pays a monthly fee of \$384 plus a golf cart rental fee of \$8 per round. How many rounds would both a member and a nonmember have to play in order to pay the same amount.

variable: $x =$ _____

Equation: _____ Solution: _____

7. Members of the Campus Roller Rink pay a yearly membership fee of \$50 plus \$5 each time they go skating. Nonmembers pay \$10 each time they go skating. How many times would both a member and nonmember have to go skating in a year in order to pay the same amount?

variable: $x =$ _____

Equation: _____ Solution: _____

8. Members of the Lake Shawnee Club pay \$40 per summer season plus \$7.50 each time they rent a boat. Nonmembers pay \$12.50 each time they rent a boat. How many times would both a member and a nonmember have to rent a boat in order to pay the same amount?

variable: $x =$ _____

Equation: _____ Solution: _____

9. A rock-climbing gym class charges nonmembers \$18 per day to use the wall plus \$7 per day for equipment rental. Members pay an annual fee of \$400 plus \$5 per day for equipment rental. How many days must both a member and nonmember use the wall in one year so that both pay the same amount?

variable: $x =$ _____

Equation: _____ Solution: _____

10. One cell phone service charges \$.10 per minute with no activation fee. Another cell phone service charges \$0.05 per minute with a \$20 activation fee. Find the number of minutes for which the two cell phone services charge the same amount.

variable: $x =$ _____

Equation: _____ Solution: _____

11. Sara used City Taxi, which charges \$1.50 for the first mile and \$1.00 for each additional mile. Sam used Bayside Taxi, which charges \$4.50 for the first mile and \$0.80 for each additional mile. They paid the same amount and traveled the same distance. How far did they travel?

variable: $x =$ _____

Equation: _____ Solution: _____