Writing and Evaluating Expressions Worksheet

Evaluate each expression using the values \( m = 7, r = 8, \) and \( t = 2. \)

1. \( 5m - 6 \)  
2. \( 4m + t \)  
3. \( \frac{r}{t} \)  
4. \( mt \)

5. \( 5t + 2m \)  
6. \( rm \)  
7. \( 3m - 5t \)  
8. \( \frac{mr}{t} \)

Write a word phrase for each algebraic expression.

10. \( n + 16 \)  
11. \( 3.2n \)  
12. \( 25.6 - n \)

13. \( \frac{n}{24} \)  
14. \( \frac{24}{n} \)  
15. \( n - 15 \)

Write an algebraic expression for each word phrase.

16. 12 more than \( m \) machines  
17. six times the daily amount of fiber \( f \) in your diet

18. your aunt’s age \( a \) minus 25  
19. the total number of seashells \( s \) divided by 10

20. 9 less than \( k \)  
21. \( m \) divided by 6
22. twice $x$

23. 4 more than twice $x$

24. For a walk-a-thon a sponsor committed to give you a flat fee of $5 plus $2 for every mile $m$ you walk.
   a. Write an expression for the total amount you will collect from your sponsor at the end of the walk-a-thon.

   b. Then evaluate your expression for 20 miles walked.

25. You and four friends plan a surprise party. Each of you contributes the same amount of money $m$ for food.
   a. Write an algebraic expression for the total amount of money contributed for food.

   b. Evaluate your expression if each person contributed $5.25.

26. A cell phone company charges $40 per month plus a $35 activation fee.
   a. Write an expression for the total cost for $m$ months.

   b. Then evaluate your expression for 10 months of service.