

## Writing and Evaluating Expressions Worksheet

Evaluate each expression using the values  $m = 7$ ,  $r = 8$ , and  $t = 2$ . Write your answer as a reduced fraction if needed.

1. $5m - 6$	2. $4m + t$	3. $\frac{t}{r}$	4. $m \cdot t$
5. $5t + 2m$	6. $r \cdot m - 15$	7. $3m - 5t$	8. $\frac{r}{mt}$
9. $0.5r$	10. $\frac{3}{4} \cdot r$	11. $\frac{12.2}{t}$	12. $15.3 + r - t$

Evaluate each expression using the given values. Write your answer as a reduced fraction if needed.

13. $\frac{6.3}{x} ; x = 3$	14. $d - 12 ; d = 60$	15. $\frac{5}{8} - p ; p = \frac{3}{16}$
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**Application. Write a verbal model and an algebraic model. Then, evaluate for each application. Label each answer appropriately.**

16. You invest \$80 at a simple annual interest rate of 2%. How much simple interest would you earn 1.5 year?

Verbal Model:

Algebraic Model:

Solution:

17. You travel 55 miles per hour for 6 hours. How many miles did you travel?

Verbal Model:

Algebraic Model:

Solution:

18. An average student playing volleyball burns 2.5 calories per minute. If the student plays volleyball for 30 minutes, how many calories does the student burn?

Verbal Model:

Algebraic Model:

Solution:

19. You are wanting to buy a new cellphone for \$350. You must also pay a 6% tax. How much money will you pay in total for the cell phone?

Verbal Model:

Algebraic Model:

Solution:

