Name __Akbar__ Period __math__ Date __7/29/2021__

Writing and Evaluating Expressions Worksheet

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

1. $5m - 6$

39

2. $4m + t$

30

3. $\dfrac{r}{t}$

4

4. mt

14

5. $5t + 2m$

24

6. rm

56

7. $3m - 5t$

11

8. $\dfrac{mr}{t}$

27

Write a word phrase for each algebraic expression.

10. $n + 16$

n plus 16

11. $3.2n$

3.2 times n

12. $25.6 - n$

25.6 minus sn

13. $\dfrac{n}{24}$

n by 24

14. $\dfrac{24}{n}$

24 byn

15. $n - 15$

n minus 15

Write an algebraic expression for each word phrase.

16. 12 more than m machines

m + 12

17. six times the daily amount of fiber f in your diet

6f

18. your aunt's age a minus 25

a − 25

19. the total number of seashells s divided by 10

s ~ 10

20. 9 less than k

k − 9

21. m divided by 6

$\dfrac{m}{6}$

22. twice *x*

$$2x$$

23. 4 more than twice *x*

$$4x$$

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.

$$5 + x2 = m$$

b. Then evaluate your expression for 20 miles walked.

$$5 + (2 \times 20) = x$$

$$\boxed{40\ 5}$$

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.

$$5m = n$$

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

$$5 \times 5.25 = x$$

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.

$$35 + 40m = x$$

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

$$35 + (40 \times 10) = x$$

$$\boxed{435}$$