

1.1 Verbal Expressions Worksheet

Write a verbal expression for each algebraic expression.

1. $\frac{23f+2}{3}$ The sum of 23 times a number and two all over three

2. 7^3

3. $5m^2 + 2$ Five times a number squared plus two.

4. $4(d^4 - 10)$

5. $x^3 \cdot y^4$

A number to the third power multiplied by a different number to the fourth power

6. $b^2 - 3c^3$

7. $\frac{k^5-1}{6}$ The difference of a number to the fifth and one all divided by six

8. $\frac{4n^2}{7-n}$

Write an algebraic expression for each verbal expression.

9. Three-fifths of the sum of 6 and k

$$\frac{3}{5}(6+k)$$

10. Add four-fifths to 2 times r

11. Four-fifths of the sum of 3 and c plus the product of 4 and s

$$\frac{4}{5}(3+c) + 4s$$

12. Subtract two-fifths from 6 times p

13. 8 is subtracted from one-fifth of d

$$\frac{1}{5}d - 8$$

14. Three-fourths of the sum of 6 and n minus the product of 3 and z

15. The sum of four-fifths of w, three-fifths of z, and 2

$$\frac{4}{5}w + \frac{3}{5}z + 2$$

16. 6 times the quantity of 4 plus p

17. Subtract 4 from 7 times n

$$7n - 4$$

18. Four-fifths of the sum of f and 5

19. A used book store sells paperback fiction books in excellent condition for \$2.50 and in fair condition for \$0.50. Write an expression for the cost of buying x excellent condition paperbacks and f fair condition paperbacks.

$$2.50x + 0.50f$$

20. The surface area of the side of a right cylinder can be found by multiplying twice the number π by the radius times the height. If a circular cylinder has radius r and height h , write an expression that represents the surface area of its side.

Write a story for the following expressions.

21. If x stands for the number of text messages a month.

$$0.10x + 20$$

A phone company charges \$0.10 per text message and \$20.00 for data. Write an expression for the monthly cost.

22. If x stands number of Zumba classes you attend at your gym.

$$5x + 40$$

A gym charges \$5.00 per Zumba class and \$40.00 a month to join. Write an expression for the cost of your membership.

23. If x stands for the number of Red Delicious Apples you bought at the grocery store.

$$.29x + 100$$

24. If x stands for the number of miles your drove a U-Haul truck.

$$.50x + 85$$