

2-1 Skills Practice**Writing Equations****Translate each sentence into an equation.**

1. Two added to three times a number m is the same as 18.
2. Twice a increased by the cube of a equals b .
3. Seven less than the sum of p and t is as much as 6.
4. The sum of x and its square is equal to y times z .
5. Four times the sum of f and g is identical to six times g .

Translate each sentence into a formula.

6. The perimeter P of a square equals four times the length of a side ℓ .
7. The area A of a square is the length of a side ℓ squared.
8. The perimeter P of a triangle is equal to the sum of the lengths of sides a , b , and c .
9. The area A of a circle is pi times the radius r squared.
10. The volume V of a rectangular prism equals the product of the length ℓ , the width w , and the height h .

Translate each equation into a sentence.

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| 11. $g + 10 = 3g$ | 12. $2p + 4t = 20$ |
| 13. $4(a + b) = 9a$ | 14. $8 - 6x = 4 + 2x$ |
| 15. $\frac{1}{2}(f + y) = f - 5$ | 16. $k^2 - n^2 = 2b$ |

Write a problem based on the given information.

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| 17. c = cost per pound of plain coffee beans
$c + 3$ = cost per pound of flavored coffee beans
$2c + (c + 3) = 21$ | 18. p = cost of dinner
$0.15p$ = cost of a 15% tip
$p + 0.15p = 23$ |
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