

Pre-Algebra 2.6 Modeling Verbal Expressions

Two more than four times a number

$$2 + 4 * n$$
$$2 + 4n$$

Five times the sum of a number and three times that number

$$5 * (m + 3m)$$
$$5(4m)$$

You are buying cassettes and some cds
Each cassette costs \$12 and each cd costs \$15. Write an algebraic expression for the total cost.

Verbal Model: (Algebraic Model)

Cost per Cassette x Number of cassettes + Cost per CD x Number of CD's = Total Cost

$$12 * c + 15 * d = \text{total cost}$$

$$12c + 15d = \$69$$

	c	d
1	12	15
2	24	15
2	24	230
2	<u>24</u>	<u>345</u>

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6. D 7. F 8. E 9. A 10. C

11. $\frac{x}{23}$ 12. $\frac{m}{7}$ 13. $9 + 10n$ 14. $1 + 2x$

15. $5x - 4$ 16. $8 - 2n$ 17. $102n$ 18. $11(6 + m)$

19. $\frac{w}{2 + x}$ 20. $10 - \frac{a}{b}$

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7. C 8. F 9. A 10. D 11. B 12. E

13. $d + 9 = 20$