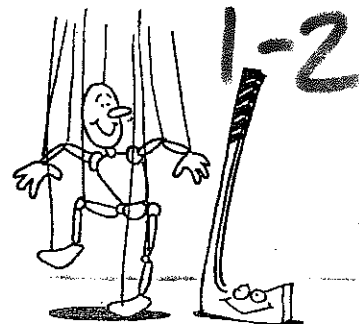


How Was the Wooden Marionette Related to the Wooden Hockey Stick?



Find each answer in the adjacent answer columns. Write the letter of the answer in the box containing the number of the exercise.

Evaluate for $x = 4$.

- | | | | | |
|-------------------|-------------|-------------|--------|-------|
| 1. $9x$ | 2. $2x + 7$ | 3. x^2 | S. 13 | H. 15 |
| 4. $\frac{5x}{2}$ | 5. $3x^2$ | 6. $(3x)^2$ | Y. 10 | O. 92 |
| | | | T. 36 | H. 48 |
| | | | A. 144 | E. 16 |

Evaluate for $a = 7$ and $b = 2$.

- | | | | | |
|-------------------------|-------------------|------------------------------|-------|--------|
| 7. $6ab$ | 8. $8a - 5b$ | 9. ab^2 | E. 53 | A. 125 |
| 10. $a^2 + b^2$ | 11. $(a + b)^2$ | 12. $(a - b)^3$ | F. 11 | D. 84 |
| 13. $\frac{4a + 6b}{5}$ | 14. $b^3(a - 2b)$ | 15. $\frac{a^2b + 1}{a + b}$ | T. 46 | T. 90 |
| | | | M. 8 | S. 81 |
| | | | H. 28 | E. 24 |

The number of diagonals for a polygon is given by the formula: $T = \frac{n(n-3)}{2}$, where n is the number of sides. Find T if

- | | | | |
|-------------|--------------|--------------|--------|
| 16. $n = 6$ | 17. $n = 10$ | 18. $n = 20$ | I. 170 |
| | | | E. 22 |
| | | | A. 9 |
| | | | T. 144 |
| | | | M. 35 |

The distance traveled by a moving object is given by the formula: $d = rt$, where r is speed and t is time. Find d if

- | | | | |
|---------------------------------|--------------------------------|---------------------------------------|------------|
| 19. $r = 60$ mph
$t = 3.5$ h | 20. $r = 96$ m/s
$t = 15$ s | 21. $r = 300$ ft/min
$t = 5.2$ min | Y. 1440 m |
| | | | R. 1640 ft |
| | | | T. 1560 ft |
| | | | L. 210 mi |
| | | | O. 1280 m |

The volume of a square pyramid is given by the formula: $V = \frac{hw^2}{3}$, where h is height and w is a side of the base. Find V if

- | | | | |
|------------------------------|--------------------------------|-------------------------------|-----------------------|
| 22. $h = 9$ cm
$w = 4$ cm | 23. $h = 5$ in.
$w = 6$ in. | 24. $h = 3$ ft
$w = 10$ ft | A. 72 in.^3 |
| | | | E. 100 ft^3 |
| | | | R. 48 cm^3 |
| | | | H. 44 cm^3 |
| | | | E. 60 in.^3 |

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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