

# 3.1 Puzzle Time

## Why Were King Edward's Soldiers Too Tired To Fight?

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

Write each expression using exponents.

1.  $a \cdot a \cdot a \cdot a$       2.  $6 \cdot y \cdot y$   
 3.  $\frac{1}{4} \cdot c \cdot c \cdot d \cdot d$       4.  $9.8 \cdot m \cdot m \cdot m \cdot n \cdot n$

Evaluate the expression when  $a = 4$ ,  $b = 3$ , and  $c = 10$ .

5.  $5 + a$       6.  $c - 2.5$       7.  $2.8 \div a$   
 8.  $13\frac{3}{5} - b$       9.  $\frac{5a}{8}$       10.  $\frac{c}{5} - \frac{a}{2}$   
 11.  $a \cdot b \cdot c$       12.  $c^2 - ab$

Evaluate the expression when  $a = 12$ ,  $b = 5$ , and  $c = 2$ .

13.  $3a + 4$       14.  $5c - 6.7$       15.  $\frac{a}{5} + 4$   
 16.  $\frac{26}{b} + 8.8$       17.  $c^2 + \frac{2}{3}$       18.  $\frac{a^2}{12} - 2.4$   
 19.  $\frac{a}{6} + 7c$       20.  $bc + 11.2$       21.  $\frac{6a}{c} - 2$   
 22.  $\frac{ab}{6} - 3c$

23. The expression  $12a + 7s$  is the cost, in dollars, for  $a$  adults and  $s$  students to enter the local marching band competition. Find the total cost for 4 adults and 30 students.

Answers	
Y. $10\frac{3}{5}$	G. $9.8m^3n^2$
S. 14	S. $2\frac{1}{2}$
E. $a^4$	T. $6\frac{2}{5}$
H. 0	D. $4\frac{2}{3}$
N. 258	H. $6y^2$
L. 88	T. 120
S. 4	E. 34
S. $\frac{1}{4}c^2d^2$	I. 40
E. 21.2	A. 9
P. 3.3	E. 9.6
K. 7.5	L. 0.7
H. 16	

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