

QUOTABLE PUZZLES

Expressions and Operations A.2a

Directions: Solve the following problems. Match that answer to the correct letter of the alphabet. Enter that letter of the alphabet on the blank corresponding to the problem number.

$$\frac{7}{18} \cdot \frac{19}{9} \cdot \frac{16}{11} \cdot \frac{1}{17} \cdot \frac{14}{16} \cdot \frac{14}{19} \cdot \frac{8}{8}$$

$$\frac{6}{20} \cdot \frac{12}{19} \cdot \frac{18}{1} \cdot \frac{12}{3} \cdot \frac{4}{5} \cdot \frac{5}{5}$$

$$\frac{5}{18} \cdot \frac{2}{18} \cdot \frac{5}{16} \cdot \frac{8}{20} \cdot \frac{10}{19} \cdot \frac{15}{4} \cdot \frac{13}{19}$$

A x^4	B $125x^{12}$	C 1	D $10x^5$	E $-125x^3$	F $4x^5$	G 0	H x^6y^9	I x^3y	J $9a^3$	K x^8	L $2a^3x^2$	M $7x^2 + 35x$
N z^4	O $5b^2$	P x^6	Q $10x^4$	R t^6	S $7x^3$	T $-24x^5$	U $-8x^9$	V $4x^6$	W 10^2	X $27a^3$	Y $8x^4$	Z x^5y^6

Simplify:

1. $x^2 \cdot x^4$

2. $(2x^3)^2$

3. $4x^3 \cdot 2x$

4. $\frac{x^6}{x^2}$

5. $2x \cdot 5x^4$

6. $7x(x + 5)$

7. $\frac{10^6}{10^4}$

8. $\frac{14x^5}{2x^2}$

9. $(x^2 y^3)^3$

10. $(5x^4)^3$

11. $(3a)^3$

12. $(a^2 x)(2ax)$

13. a^0

14. $\frac{z^{10}}{z^6}$

15. $t^2 \cdot t^2 \cdot t^2$

16. $(-5x)^3$

17. $\frac{20b^3}{4b}$

18. $\frac{x^5 y^6}{x^2 y^5}$

19. $(-8x^3)(3x^2)$

20. $(-2x^3)^3$