

Find the simplest form for each expression in the corresponding answer column. (Some of the expressions cannot be simplified.) Write the letter of the exercise in the box containing the number of your answer.

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|----------------------------|------------------------|
| (T) $5x^2 + 2x^2 - 3x^2$ | (19) $5xy^2$ |
| (N) $(5x^2)(2x^2)(-3x^2)$ | (1) $16x^6$ |
| (S) $4x^3 + x^2 + 4x$ | (11) $3x + 2y$ |
| (I) $(4x^3)(x^2)(4x)$ | (15) $7x^2y - 2xy^2$ |
| (L) $-3x^3 + 5x^2 - 3x^3$ | (13) $4x^2$ |
| (A) $(-3x^3)(5x^2)(-3x^3)$ | (16) $4x^3 + x^2 + 4x$ |
| (E) $3x + 2y$ | (18) $45x^8$ |
| (T) $(3x)(2y)$ | (9) $-14x^3y^3$ |
| (Y) $7xy^2 - 2xy^2$ | (5) $-30x^6$ |
| (D) $(7xy^2)(-2xy^2)$ | (2) $-14x^2y^4$ |
| (I) $7x^2y - 2xy^2$ | (6) $6xy$ |
| (A) $(7x^2y)(-2xy^2)$ | (8) $-6x^3 + 5x^2$ |

- | | |
|---|--------------------|
| (1) $(3a)(a^2)(a^3) + (2a^2)(a^4)$ | (10) $-2a^5b^5$ |
| (T) $(a^4)(5a)(a^2) + (-4a^3)(2a^3)(a)$ | (4) $13a^3b$ |
| (W) $(2a^3)(a^2)(3a^2) + (8a^2)(-a^2)(a)$ | (12) $-3a^7$ |
| (D) $(5a^2)(2ab) + (a^2b)(3a)$ | (7) 0 |
| (H) $(2ab^2)(-2a^2b^2) - (ab^3)(6a^2b)$ | (14) $-10a^3b^4$ |
| (N) $(-a^2b)(ab^2)(a^2b^2) + (a^3b^2)(-a^2b^3)$ | (3) $5a^6$ |
| (P) $(4a^2b^2)(-3b^3) - (2ab^2)(-6ab^3)$ | (17) $6a^7 - 8a^5$ |

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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Write the letter of each exercise in the box that contains the number of the answer.

Simplify the expression.

E $6^5 \cdot 6^3$

G $6^5 \div 6^3$

S $6^2 \cdot 6^7$

A $6^2 \div 6^7$

T $6^4 \div 6^{-1}$

I $\frac{6^{-2}}{6^9}$

O $\frac{6^{-2}}{6^{-9}}$

19 6^{-5}

31 6^{11}

16 6^7

21 6^8

8 6^5

28 6^9

5 6^{-3}

13 6^2

25 6^{-11}

Write the expression without exponents.

N $5^{-2} \cdot 5^5$

W $5^2 \div 5^5$

E $(-5)^5 \cdot (-5)^{-2}$

G $(-5)^{-5} \div (-5)^{-2}$

H $\frac{(-12)^4}{(-12)^6}$

Y $\frac{2^{-3}}{2^{-10}}$

M $\frac{(-2)^{-10}}{(-2)^{-3}}$

4 $\frac{1}{125}$

10 128

17 -144

12 125

27 $-\frac{1}{125}$

18 $-\frac{1}{128}$

7 -128

32 -125

1 $\frac{1}{144}$

Simplify the expression.

R $a^3 \cdot a^{-10}$

S $a^3 \div a^{-10}$

N $\frac{a^6}{a^{11}}$

E $\frac{a^{-7}}{a^4}$

I $\frac{a^{-7}}{a^4}$

A $\frac{a^{15}}{a^{14}}$

T $\frac{a^{15}}{a^{15}}$

26 a^{-5}

33 a

14 a^6

6 a^{13}

2 a^{-11}

23 1

34 a^{-7}

11 a^{-3}

3 a^3

Write the expression without exponents.

T $\frac{(-10)^5}{(-10)^9}$

C $\frac{(-10)^{-4}}{(-10)^{-3}}$

A $\frac{(-10)^{-1}}{(-10)^{-7}}$

H $3^{-2} \cdot 3^{-3}$

K $\frac{3}{3^{-4}}$

R $(-3)^{-3} \div (-3)^{-8}$

L $\frac{-3}{(-3)^6}$

24 $\frac{1}{243}$

22 $1,000$

31 $-\frac{1}{243}$

30 $-\frac{1}{10}$

20 243

29 -81

5 $1,000,000$

15 $\frac{1}{10,000}$

9 -243

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34

