

Where Will Campers Sleep in 20 Years ?

Do each exercise below, following the directions given for each section. Select your answer from the two choices given and circle the letter next to it. Write this letter in the box at the bottom of the page that contains the number of that exercise.

Write each expression in exponential form.															
① $x \cdot x \cdot x \cdot x$	Ⓐ x^3	Ⓔ x^4													
② k cubed	Ⓝ k^3	Ⓡ k^6													
③ $12 \cdot m \cdot n \cdot n$	Ⓜ $12mn$	Ⓢ $12mn^2$													
④ $\frac{1}{3} \cdot u \cdot u \cdot u \cdot v \cdot v$	Ⓞ uv^2	Ⓣ $\frac{1}{3}u^3v^2$													
⑤ $(a + b)(a + b)(a + b)$	Ⓔ $(a + b)^3$	Ⓛ $a^3 + b^3$													
⑥ $(c + d)(c + d)(c - d)$	Ⓐ $(c - d)^3$	Ⓤ $(c + d)^2(c - d)$													
⑦ $-7 \cdot x \cdot (x + 3)(x + 3)$	Ⓐ $-21x^3$	Ⓡ $-7x(x + 3)^2$													
⑧ $(x + y)$ squared	Ⓔ $(x + y)^2$	Ⓡ $x^2 + y^2$													
⑨ the fifth power of the product of p and q	Ⓡ $(pq)^5$	Ⓞ $(p + 5)q$													
Evaluate each expression for the given values of the variables.															
⑩ $x^2 - 3xy$ if $x = 5, y = 2$	Ⓣ -5	Ⓡ 10													
⑪ $x^2 - y^2$ if $x = -7, y = -1$	Ⓜ 48	Ⓡ 52													
⑫ $(x - y)^3$ if $x = 2, y = -4$	Ⓐ 256	Ⓤ 216													
⑬ $xy^2 - 2x^3$ if $x = 3, y = 2$	Ⓣ -42	Ⓟ -56													
⑭ $\frac{-5a^2}{a - b}$ if $a = -4, b = 6$	Ⓡ 12	Ⓣ 8													
⑮ $\frac{3ab^3}{(2a)^2}$ if $a = 1, b = -2$	Ⓟ 4	Ⓣ -6													
⑯ $\frac{(a + b)^4}{9 - a^2}$ if $a = -5, b = 3$	Ⓡ 2	Ⓝ -1													
9	2	4	11	1	13	6	15	12	7	5	14	8	16	10	3

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Simplify each expression below. Find your answer in the answer column and notice the letter next to it. Write this letter in each box at the bottom of the page that contains the number of that exercise.

- 1 $8x^2 + 2x - 5x + 7$
- 2 $4 - 3x^2 - 9x - 7 + x^2$
- 3 $-5x + 8 - 4x^2 - 4x + 2x^2$
- 4 $x^2 - (-3x) + 4 + 7x^2 - 8x - 6$
- 5 $-x - 5x + (-3x^2) - 9 - 2x + 7$
- 6 $-7 + x^3 - 5x^2 + 4x - 5x + 3$
- 7 $4x^3 + 6x^2 + 6x - 1 + 5x^3 - x^2 - (-9)$
- 8 $-7x + 5x^2 - 5x^3 + 8x + 3x^2 - 7x^3 + x^3$
- 9 $6x^3 + (-2) - (-2x) - 5x^3 - 4x^2 + x + 4x^2 + 15$
- 10 $6x^5 - 2x^4 + 6x^3 - 12x^5 - 6x^4 + 9x^3$
- 11 $8ab - 3b^2 + 2a^2 - 4ab + 4b^2$
- 12 $5a^2b + 9ab^2 - 2a^2b - 13ab^2$
- 13 $3a^3 + b^3 - 6a^2b - a^3 + 6ab^2 + a^2b$
- 14 $a^2b^2 + a^2b - a^3 - ab^2 + a^2b - b^3 - a^2b^2 - b^3$

- C $-11x^3 + 8x^2 + x$
- N $-6x^5 - 7x^4 + 9x^3$
- E $8x^2 - 5x - 2$
- V $3a^2b - 4ab^2$
- L $8x^2 - 3x + 7$
- K $2a^3 - 5a^2b - ab^2 - 2b^3$
- H $x^3 + 3x + 13$
- U $x^3 - 5x^2 - x - 4$
- B $2a^2 + 4ab + b^2$
- A $-2x^2 - 9x - 3$
- O $2a^3 - 5a^2b + 6ab^2 + b^3$
- M $9x^3 + 5x^2 + 6x + 8$
- S $-2x^2 - 9x + 8$
- T $-6x^5 - 8x^4 + 15x^3$
- R $-a^3 + 2a^2b - ab^2 - 2b^3$
- D $-3x^2 - 8x - 2$

3	13	9	4	8	13	6	1	5	11	4	8	13	7	4	2	10	14	2	12	4	1	11	6	14	14	13
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“Where Will Campers Sleep in 20 Years?”

#	Show Work	Letter
1		
2		
3		
4		
5		
6		
7		
8		
9		

#	Show Work	Letter
10		
11		
12		
13		
14		
15		
16		

Why Did the Donkey Get a Passport?

#	Rewrite in Standard Form	Combine Like Terms
1		
2	$-3x^2 + x^2 - 9x + 4 - 7$	$-2x^2 - 9x - 3$
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		