

show simplifying on this paper

What Do They Call the International Hula Hoop Championships?



Simplify each expression, then evaluate it for the given value of the variable. Find the simplified expression in the answer column and notice the letter next to it. Write this letter in the box at the bottom of the page that contains the value of the expression.



1. $-4x + 5 + 9x - 2$ if $x = 6$
2. $7 + 7x - (-2x) + 3$ if $x = -4$
3. $x - 8 + (-8x) - 15$ if $x = -9$
4. $-5 - 3x - x - (-16)$ if $x = 20$
5. $-6x + (-4) + 15x - 5 - 2x$ if $x = -1$
6. $7(x - 3) + 4x$ if $x = 3$
7. $9x - 2(x + 6)$ if $x = -10$
8. $15 - 4(a - 5)$ if $a = 8$
9. $a + 6(7 - a)$ if $a = -6$
10. $-5(-2a + 3) - 8$ if $a = -2$
11. $12a - 2(5a - 4) + 3$ if $a = 44$
12. $-a + 7(1 + 3a) - 20$ if $a = -3$
13. $4 - 4(-2a - 9) + 10a$ if $a = 2$
14. $-6a + 3(11 - 8a) - 2$ if $a = -5$

Simplified Expressions

- S. $-7x - 23$
- N. $7x - 21$
- E. $7x - 12$
- I. $5x + 3$
- R. $-4x + 11$
- O. $11x - 9$
- H. $11x - 21$
- E. $9x + 10$
- I. $7x - 9$
- F. $-4x - 12$
- P. $-30a - 13$
- E. $-5a + 42$
- L. $20a - 13$
- A. $18a + 31$
- S. $10a - 23$
- W. $-30a + 31$
- H. $-4a + 35$
- R. $18a + 40$
- K. $20a + 40$
- T. $2a + 11$

175	99	12	-26	-88	181	3	33	-69	-73	64	-43	-82	76	-16	72	40	-18
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Why Is a Shooting Star Better Than a Hamburger?

For each set of directions, write the answer. Write the letter of the correct answer in the box.

3	3	8	1	10	6	9	2	4	7
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1 Find the quotient.

a. $-40 \div 5$

b. $30 \div (-15)$

c. $-45 \div (-11)$

d. $-100 \div (-4)$

(J) -2

(S) -25

(B) -8

(Y) 25

(P) 8

2 Find the quotient.

a. $\frac{-54}{3}$

c. $\frac{75}{-25}$

b. $\frac{-36}{-12}$

d. $\frac{0}{-10}$

(U) -3

(C) -6

(M) 0

(L) 3

(E) 6

3 Find the quotient.

a. $-48 \div (-3)$

b. $-36 \div 18$

c. $120 \div (-10)$

d. $300 \div 450$

(D) -2

(H) 2

(T) 18

(A) -18

(F) 16

4 Simplify.

a. $\frac{150}{-2}$

c. $\frac{-24 + 9}{-8 + 3}$

b. $\frac{-7500}{-75}$

d. $\frac{-24}{-8} + \frac{9}{3}$

(K) 6

(E) -75

(N) 3

(O) -6

(K) 100

5 Simplify.

a. $\frac{-13 + 1}{3}$

c. $\frac{-20 - 25}{-15}$

b. $\frac{(-15)(-4)}{-6}$

d. $\frac{100 - (-20)}{30}$

(A) 3

(I) -3

(S) 4

(U) -10

(O) -4

6 Simplify.

a. $\frac{-43}{7} + \frac{-64}{8}$

c. $\frac{-28}{-13} + \frac{-60}{5}$

b. $\frac{150}{-15} + \frac{-13}{-13}$

d. $\frac{-99}{-1} + \frac{0}{-99}$

(E) 10

(G) -9

(W) 99

(N) -15

(B) -10

7 Evaluate if $x = -2$, $y = -6$.

a. $\frac{xy}{-3}$

c. $\frac{-9x}{y}$

b. $\frac{8y}{x}$

d. $\frac{144}{-xy}$

(D) 24

(L) -3

(N) -4

(R) 15

(T) -12

8 Evaluate if $k = 3$, $n = -8$.

a. $\frac{kn}{2}$

c. $\frac{96}{-kn}$

b. $\frac{k + n}{-5}$

d. $\frac{9n}{4k}$

(S) 1

(A) -6

(E) 4

(I) 6

(U) -12

9 Solve mentally.

a. $\frac{x}{7} = -6$

c. $\frac{360}{q} = -36$

b. $\frac{h}{-3} = -14$

d. $\frac{-64}{m} = 4$

(D) -10

(P) -42

(T) 16

(S) -16

(N) 42

10 Solve mentally.

a. $8y = -56$

b. $-3p = -63$

c. $80 + u = 2$

d. $80 + (-v) = 2$

(B) 21

(K) 40

(N) -40

(G) -7

(M) -21