

Distributive Property Worksheet #1

Name: _____

Date: _____

Class: _____

Rewrite each expression below using the Distributive Property:

Factored Form	Distributed Form	Simplified Form
1. $2(x + 4)$	$2(x) + 2(4)$	$2x + 8$
2. $3(y - 6)$	$3(y) - 3(6)$	$3y - 18$
3. $a(x + y)$	$a(x) + a(y)$	$ax + ay$
4. $8(2m - 7)$		
5. $9(3a + 1)$		
6. $a(b - c)$		
7. $3(5m - n + 1)$		
8.	$3(x) + 3(5)$	
9.	$6(y) + 6(4)$	
10.	$x(y) + x(z)$	
11.		$3x - 21$
12. $x(x + 12)$		
13.	$9(2x) + 9(3)$	
14. $r(s - t)$		

Name _____

Order of Operations #1

Use order of operations to solve the following:

① $3 + 7(3)$

② $(4 - 1)^2 - 2^2$

③ $5 + 3(4-1)$

④ $(7 - 4)(3) - 4$

⑤ $6(5 - 2)^2$

⑥ $(6 \cdot 4 - 3) \div 3$

⑦ $5 \cdot 6 \div 2 \cdot 3$

⑧ $\frac{25 - 3(6) + 3}{2}$

⑨ $-45 \div (2^3 + 1)$

⑩ $\frac{52 \div 4 - 1}{2^2}$

⑪ $\frac{17 - 5^2 + 9(2)}{5}$

⑫ $[-3(-4)^2] \div 3$

⑬ $\frac{(7 - 3^2 + 7)^2}{5}$

⑭ $\frac{7 + 2(8) - 1}{2}$

⑮ $\frac{-14(2) + 33}{-1}$

Cat Food

This problem gives you the chance to:

- solve numerical problems in a real life situation
-

Carol has two cats, Rover and Bobo.

1. Rover eats $\frac{3}{4}$ of a can of cat food each day and Bobo eats $\frac{1}{2}$ of a can of cat food each day. Cat food costs \$5.00 for three cans. **It is only sold in 3 can packs.**

How much does it cost Carol for a 60-day supply of cat food for her two cats? \$ _____

Show your work.

2. Find the cost of cat food for a 29-day supply, a 30-day supply, and a 31-day supply.

\$ _____

\$ _____

\$ _____

Show your work.

29-day

30-day

31-day

What do you notice about your answers?

COMPUTERS

- ① Steve saved until he had enough money to buy a computer that cost \$1,000 dollars. When he went to buy the computer, the price had been increased by 20%. How much more money did he need?

- ② The next day the shop had a sale and reduced all prices by 20%.^{*} Did Steve have enough money to pay for the computer in the sale? Show how you figured it out.

* The price reduction is based on the new computer price that you calculated in Problem #1 above (not the original \$1,000 price).