



Distributive Property

Expressions and functions



Do Now

Evaluate this expression:

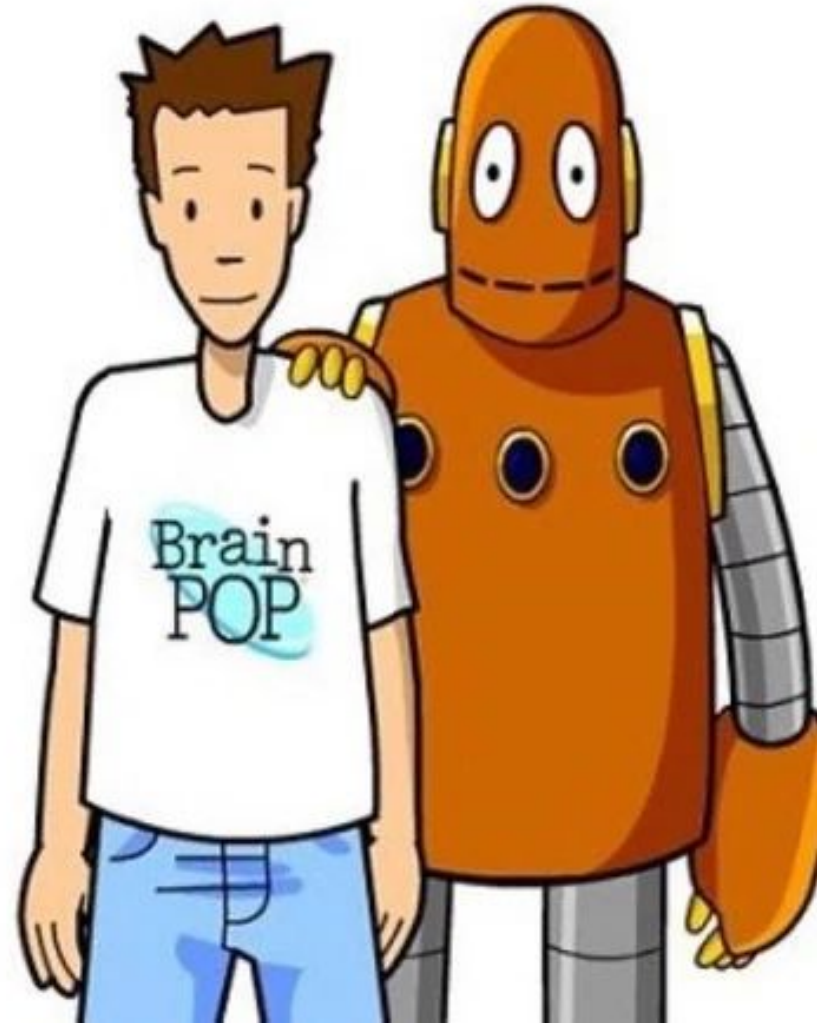
$$9(3+7+4)$$



Can someone show what they did?

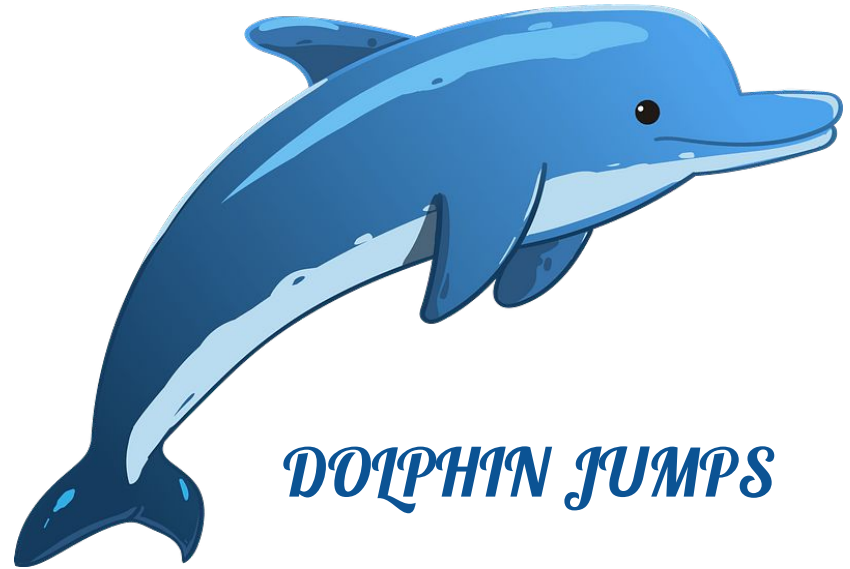
Is that the only way?

[https://www.youtube.com/watch?v=G
PpYBQBnOXY](https://www.youtube.com/watch?v=G
PpYBQBnOXY)



Try doing it that way with this problem

$$9(3+7+4)$$



DOLPHIN JUMPS

Why is this *really* important?

Variables!!

Use the distributive property on these problems:

$$2(1+2+3+n)$$

$$7(3v+2-1)+5v$$



Simplifying

Which fraction would you rather see?

$$\frac{72}{144}$$

OR

$$\frac{1}{2}$$

Simplifying

Which would you rather see?

$$21v+14-7+5v \quad \text{or} \quad 26v+7$$

Combine *like terms*...

$$2(1+2+3+n) = 2+4+6+2n$$

We can make that look neater by combining all the numbers

We can also combine variables

$$5n+3n+1=$$

$$4j-2j+10-3=$$

Put it all together: Distribute and simplify

$$2(4x+10+3x)-6$$

Assignments

Worksheet:

ALEKS:

Screencastify:

Worksheet:

Exit ticket

1) Simplify:

$$7(4+8x-2)+(3x+1)$$

2) Word problem:

A buffet charges \$32 per diner, no matter their age. If a party with 12 adults and 15 children go there for dinner, write and evaluate an expression to describe the situation.

