## NEW WHRM UPS!

- Grab new warm ups from the middle of the table. Put your name on these and keep them in your binder until the end of the week.


## COMBO MEALS

- Suppose you can buy a combo meal that includes 2 tacos and a soda.

- What if you wanted THREE of these combo meals??? How could you show that?

DISTRIBUTIVE PROPERTY

$$
\begin{aligned}
3(\overbrace{2}+\square) & =6 \\
3(2 t+d) & =6 t+3 d
\end{aligned}
$$

DISTRIBUTIVE PROPERTY

$$
\begin{aligned}
& \text { 5(x+3)-7} \quad 5 x+15-7 \rightarrow 5 x+8 \\
& 8(a-3)-4 \quad 9 a-27-4 \rightarrow 9 a-31 \\
& 4 a-2 a-a+1 \rightarrow 3 a+1 \\
& 5 x-(x+1)-2 x \\
& 5 x-x-1-2 x) 2 x-1
\end{aligned}
$$

## DISTRIBUTE AND SIMPLIFY

$$
\begin{gathered}
(x+1)-1(x+2) \\
x+1-x-2 \\
2 x+3-1(2 x+x-6) \\
2 x+3-2 x-x+6 \\
9-x \\
-x+9
\end{gathered}
$$

## EQUATIONS

- In an expression, the variable could represesnt ANYTHING!!!

$$
3 x-1
$$

-In an equation, there is only ONE number the variable couid be. (Usually)
To SOLVE an equation is to find winich value of the varıable makes the equation true.


## SOLVE EACH EQUATION

$$
\begin{gathered}
x+6=11 \\
-6=-6 \\
x=5
\end{gathered}
$$

$$
\frac{4 x}{4}=\frac{36}{4}
$$



## SOLVE EACH EQUATION

$$
\begin{aligned}
8 x-10 & =22 \\
+10 & +10 \\
\frac{8 x}{8} & =\frac{32}{8} \quad x=4
\end{aligned}
$$

$2 x+5=20$

$$
-5 \quad-5
$$

$$
\frac{2 x}{2}=\frac{15}{2}
$$

BOXES AND APPLES

## A VISUAL WAY TO UNDERSTAND THE DISTRIBUTIVE PROPERTY:

$$
4(2 x+3)
$$

Q: How would I show it with boxes and apples?

(4 groups. Each group has $2 x+3$.


## SOLVE EACH EQUATION

$$
\begin{array}{rl}
5 x+4 & +2 x \\
7 x+4 & =25 \\
7 x & =21 \\
5 x+4 & =2 x+25 \\
-2 x & x=3 \\
3 x+4 & =25 \\
3 x & =21
\end{array}
$$

## SOLVE EACH EQUATION

## $3 x+2 x+18=20+6 x$

$$
\underset{-5 x}{5 x+18}=20+6 x
$$

$$
\begin{aligned}
& \begin{aligned}
& 18=20 \\
&-20
\end{aligned}{ }_{-20}+x \\
& -2=x
\end{aligned}
$$

HOMEWORK: WORKSHEET

