$\qquad$ Date $\qquad$ Section 1.10
$\qquad$
12.15 chunking method



$$
12(5+5+5)
$$



$$
120+60=180
$$

$$
60+60+60 \quad 12(10+5)
$$

$\square$

$$
\begin{gathered}
15(4+4+4) \\
60+60+60 \\
60.3 \\
180
\end{gathered}
$$

Karla has 4 fewer dresses than her sister Kayla has. Their cousin Rimy has three times as many dresses as Karla has. Write an algebraic expression for the number of dresses Rimy has. Define your variable.
d: Kayla's arises

$$
3(\underbrace{d-4)}_{\text {Karla's dresses }}
$$



$$
\frac{3 \sqrt{3 d-12}}{\frac{3 d+(-12)}{3 d-12}} \begin{gathered}
3 d-1 \\
3
\end{gathered}
$$

Recall that multiplication is repeated addition. Rewrite your algebraic expression. Combine like terms.

$$
\begin{array}{ll}
3(d-4)=(d-4)+(d-4)+(d-4) \\
d+(-4)+d+(-4)+d+(-4) & \text { associative property } \\
d+d+d+(-4)+(-4)+(-4) & \text { commutative popery } \\
3 d+(-12)=3 d-12 &
\end{array}
$$

Compare your algebraic expressions.

$$
\begin{aligned}
& 3(d-4)=3 d+(-12) \\
& 3(d)+3(-4)=2 d+(-12) \\
& 3 d-12=3 d-12
\end{aligned}
$$

Key Idea:
$\frac{\text { Keydea. }}{\text { The distributive property allows you to simplify }}$ the product of a number
$\qquad$ you mst micitinly the factor on the outside by evelus term on the inside.


Simplify Expressions - Distributive Property AND Combine Like Terms


