3.4 Extension Factoring Expressions

ESSENTIAL QUESTION

What does it mean to factor an expression and how do you do it?

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In the last section we learned about using the $\mbox{\sc Distributive}$ Property to simplify an expression

If we simplify $4(10d - 9) \rightarrow 4 \cdot 10d - 4 \cdot 9 \rightarrow 40d - 36$ Problem

Answer

When FACTORING AN EXPRESSION you are doing the opposite of simplifying the expression above. You are going to start with the ANSWER and come up with the PROBLEM.

Factor the expression using the GCF. $20-12 \label{eq:condition}$

Factor the expression using the GCF, $24-18 \label{eq:ccf}$

Factor the expression using the GCF, 32 ± 16

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Factor the expression using the GCF. $5x+15$	Factor the expression using the GCF. $4-12x$
S(x+3)	4 (1-3x)
7	8
Factor the expression using the GCF. $28w + 20$	Factor the expression using the GCF. $4y+10$
+ (1 w + 5)	2 (24+5)
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Factor the expression using the GCF. $16x-24$	Factor the expression using the GCF. $6x-42$
8 (5x-3)	6(1x-7)

TO FACTOR AN EXPRESSION MEANS YOU ARE DOING THE REVERSE OF THE DISTRIBUTIVE PROPERTY. YOU ARE STARTING WITH THE PROBLEM AND COMING UP WITH THE ANSWER.

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