Common Error in Student Work

Included below is an example of student using the acronym PEMDAS without any real understanding of Order of Operations.

Pre-Assessment

Allyson	Brent	Cynthia
$50 - 45 \div 5 \cdot 3 + 2$	50 - 45 ÷ 5 • 3 + 2	50 - 45 ÷ 5 • 3 + 2
$5 \div 5 \cdot 3 + 2$	$50 - 45 \div 15 + 2$	$50 - 9 \cdot 3 + 2$
1 • 3 + 2	50 – 3 + 2	50 - 27 + 2
3 + 2	47 + 2	23 + 2
5	49	25
plain which student evaluated t	ne expression accurately; use specifi	ic details from the students' work.
iront evaluated con	rectly because he stor	ted with multiplication
FOUND THANK A WHA!	uson uson+ loot to righ	Hand Cunthin did
KE IN PEMIDAS, DOTAIN	yson went let to right	i and Cylinia and
Ke in PEMDAS, but All	yson went left to right she thought it could s	trand Cynthiac

This student knows the acronym PEMDAS but does not know that multiplication and division are on the same level and you evaluate whichever comes first left to right.

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Sample very good explanation:

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$50 - 45 \div 5 \cdot 3 + 2$	50 - 45 ÷ 5 • 3 + 2	$50 - 45 \div 5 \cdot 3 + 2$
$5 \div 5 \cdot 3 + 2$	$50 - 45 \div 15 + 2$	$50 - 9 \cdot 3 + 2$
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