

ST Math Activity Page: Teacher Guide




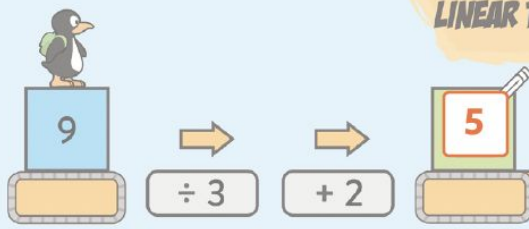
This game does not yet practice the Order of Operations, but rather sets the foundation for the idea that doing operations in different orders can affect the outcome. The game tells us to do the first operation first and the second operation next.



How did you find the starting amount?

Would your answer change if you solved the operations in a different order?

LINEAR TRANSFORM




$2 \xrightarrow{\times 10} - 5 \rightarrow 15$

$8 \xrightarrow{\times 4} - 2 \rightarrow 30$

Help me put these machines together! Which operation goes first, then second?

$\xrightarrow{\times 6} 12 \xrightarrow{-6} \xrightarrow{\times 6} 36$

$\xrightarrow{\div 6} 12 \xrightarrow{\div 6} \xrightarrow{+6} 8$

What happens if I switch the order of the operations?

$6 \xrightarrow{\times 8} + 4 \rightarrow 52$

$6 \xrightarrow{+ 4} \times 8 \rightarrow 80$

Possible answer:
You will get a different answer.

LOOK FOR students who write the intermediary values between each step.



What's another way to get from 12 to 36 (without the given operations)?



Give students a starting and ending number and ask them to use two operations to get from start to end. Ask them to switch the order of operations and see if they got to the correct end number.